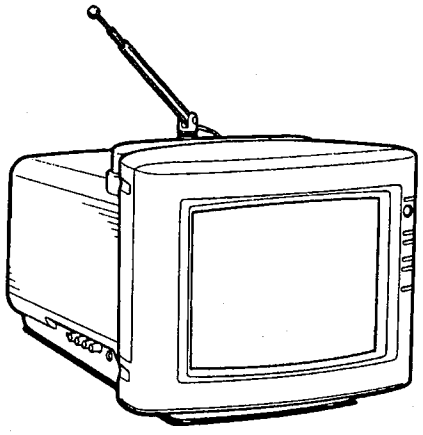
2714

KV-8AD11/8AD14

RM-792/793

SERVICE MANUAL



US Model

KV-8AD11
Chassis No. SCC-E73A-A
KV-8AD14
Chassis No. SCC-E73B-A

Canadian Model

KV-8AD11
Chassis No. SCC-E74A-A

MODELS OF THE SAME SERIES	
KV-8AD11/8AD14	

SPECIFICATIONS

Television system	American TV standard, NTSC color
Channel coverage	VHF channels 2 – 13 UHF channels 14 – 69 CATV channels 1 – 125 (181 total receivable channels)
Picture tube	Trinitron tube 8-inch picture measured diagonally 9-inch picture tube measured diagonally 70-degree deflection
Antenna	VHF/UHF telescopic antenna
Speaker	77mm round (3⅛ inches)
Inputs	VIDEO IN jacks VIDEO: RCA phono-type 1 Vp-p, 75 ohms AUDIO: RCA phono-type monaural EXT ANT (Combined CATV/VHF/UHF 75-ohm, F-type)
Output	Earphone jack VIDEO OUT jacks VIDEO: RCA phono-type AUDIO: RCA pnono-type monaural
Power requirements	120 V AC, 60 Hz 12/24 V DC
Power consumption	AC IN: 41 W max. DC IN: 32 W max.
Dimensions	Approx. 239 x 197 x 310 mm (w/h/d) (9½ x 7⅞ x 12¼ inches)
Weight	Approx. 5.0 kg (11 lb)
Cabinet color	KV-8AD11: gray KV-8AD14: white
Supplied accessories	Remote Commander with 2 size AA (R6) batteries (1) RM-792 (KV-8AD11) RM-793 (KV-8AD14) AC power cord (1) Telescopic antenna (1) Car battery cord DCC-17AW (1)
Optional accessories	Connecting cord VCM-920MS

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT
(US Model Only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

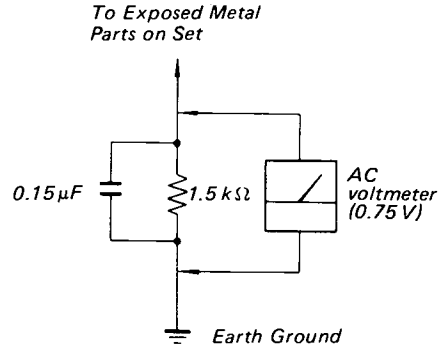


Fig. A. Using an AC voltmeter to check AC leakage.

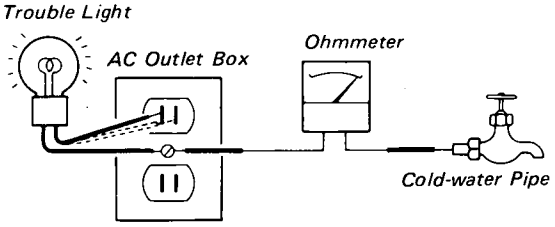
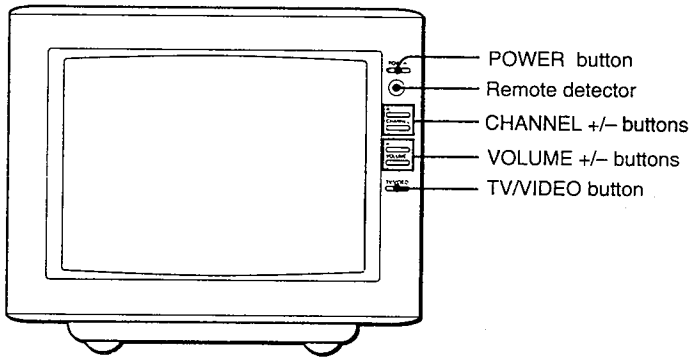


Fig. B. Checking for earth ground.

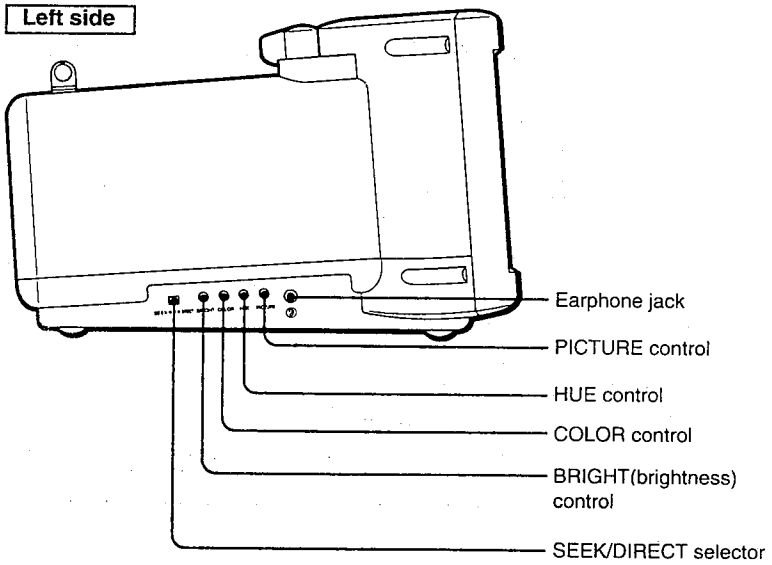
SECTION 1
GENERAL

1-1. IDENTIFYING THE PARTS

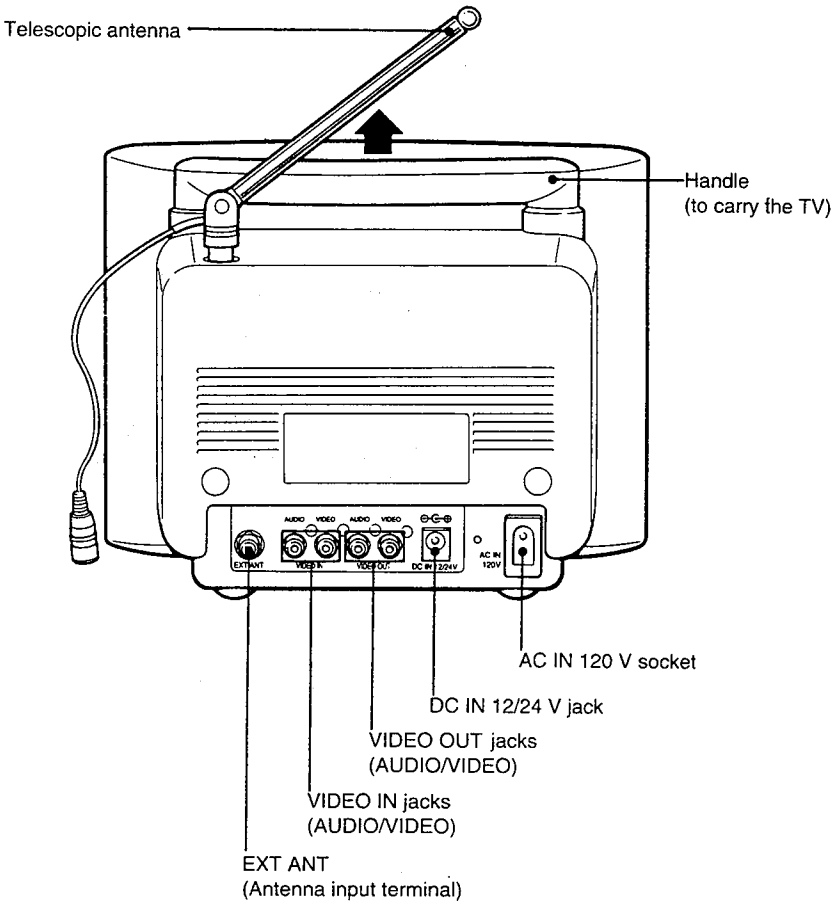
Front



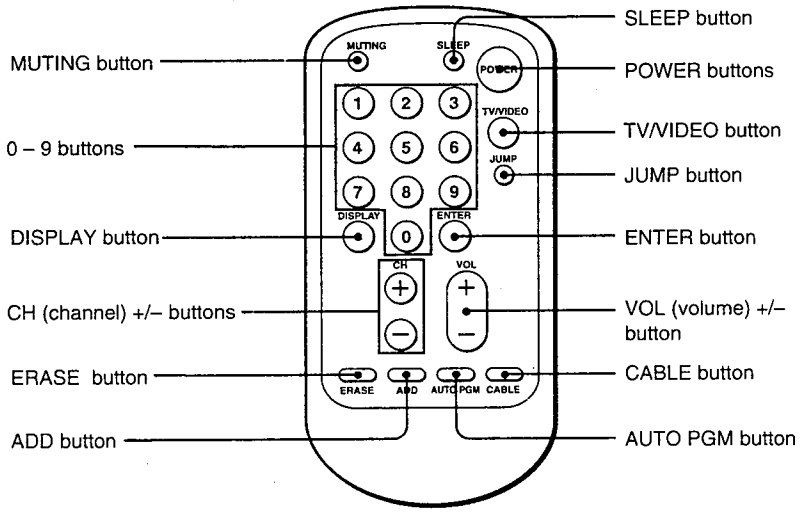
Left side



Rear


Telescopic antenna
Handle (to carry the TV)
AC IN 120 V socket
DC IN 12/24 V jack
VIDEO OUT jacks (AUDIO/VIDEO)
VIDEO IN jacks (AUDIO/VIDEO)
EXT ANT (Antenna input terminal)

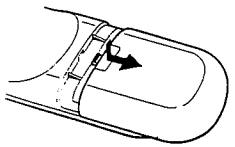
Remote commander



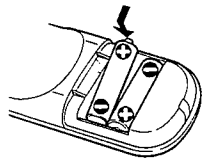
RM-792 (KV-8AD11)
RM-793 (KV-8AD14)

Installing batteries

1 Remove the battery compartment cover.



2 Insert two size AA (R6) batteries in correct polarity; then replace the lid.



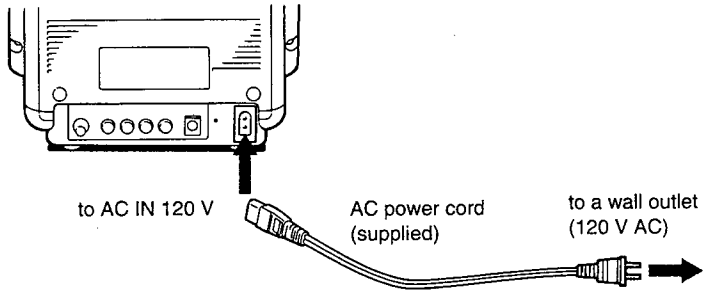
Notes

- In normal operation, batteries will last up to half a year. If the TV does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Remote Commander and the TV.
- Operable range is limited.
- If a Remote Commander not recommended is used to operate this TV, or if the supplied Remote Commander is used to operate another TV, the TV may not operate properly.

1-2. PREPARING FOR USE

Using house current

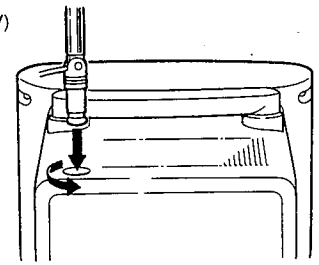
(Rear of TV)



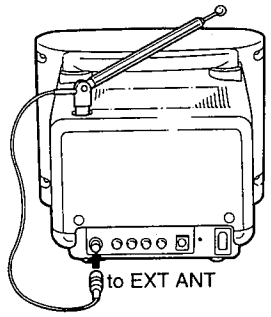
Connecting the supplied telescopic antenna

1 Insert the antenna into the receptacle on the TV, and twist to ensure a secure fit.

(Rear of TV)



2 Attach the antenna connector to the EXT ANT terminal.

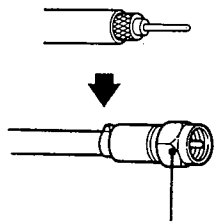


We recommend connecting VHF/UHF antennas for better picture quality. You can receive cable TV by connecting a cable supplied by your local cable company.

Prepare the antenna end according to your cable type.

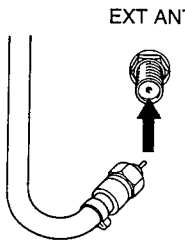
Using a VHF, UHF or combination VHF/UHF antenna, or CATV cable

75-ohm coaxial cable (round)



Attach an optional F-type connector

(Rear of TV)

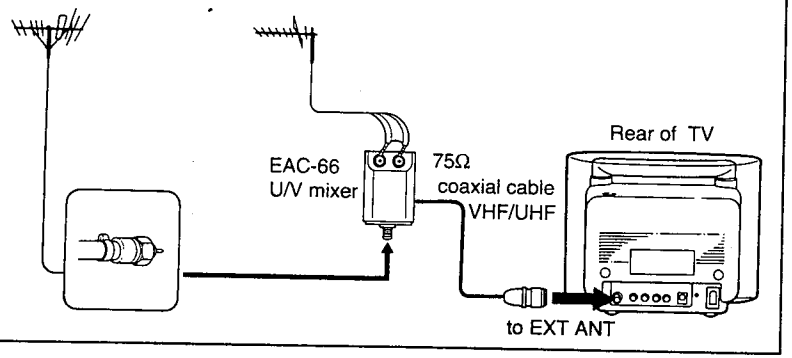


Connecting both VHF and UHF antennas

Use the EAC-66 U/V mixer (not supplied).

1 Remove the telescopic antenna from the EXT ANT terminal on the TV.

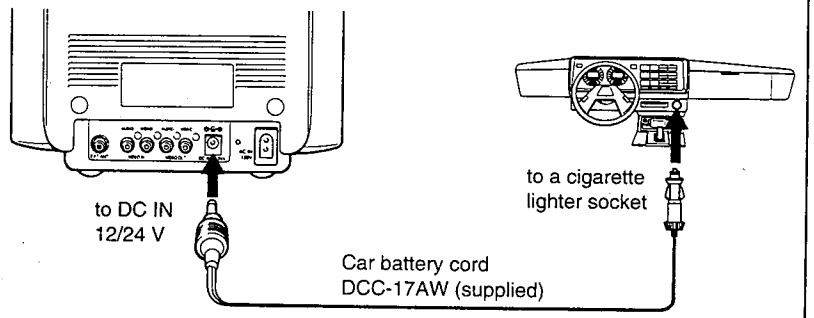
2 Prepare the antenna end using the apprcpriate connector (see the illustration above), and connect the antenna to EXT ANT.



When you use the U/V mixer

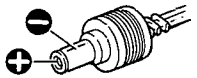
Visual and audio interference may occur in the cable TV channels over 37 (W+1).

Using a car battery



Notes

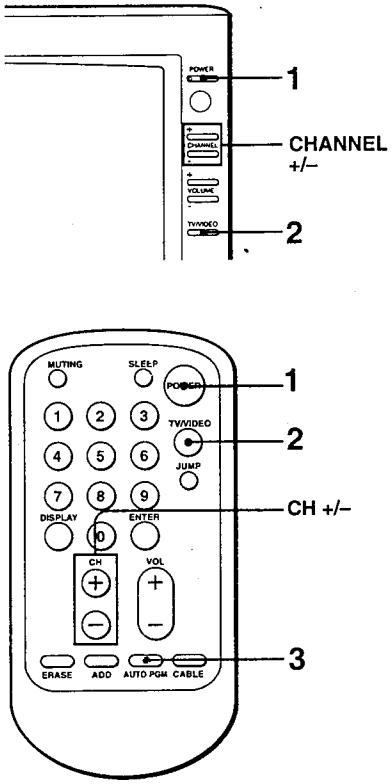
- For car use, the TV is designed for negative ground 12/24 V DC operation only.
- Use only the supplied car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.
- When you aren't using the TV, remove the car battery cord from the cigarette lighter socket.



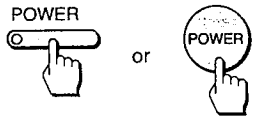
Polarity of the Sony plug

Presetting TV Channels

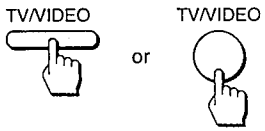
Presetting TV channels automatically



1 Press POWER on the TV or the Remote Commander to turn the TV on.

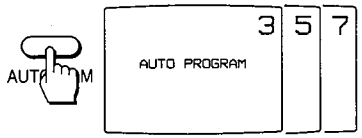


2 Press TV/VIDEO on the TV or the Remote Commander so that the TV mode appears.



If "VIDEO" is displayed on the screen, press TV/VIDEO on the TV or the Remote Commander again so that a channel number appears.

3 Press AUTO PGM.

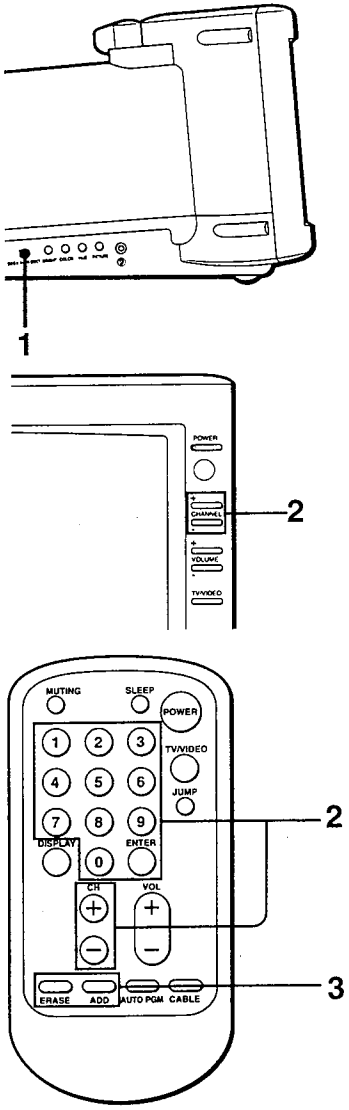


"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the TV's memory.
When no more channels can be found, the programming stops and the lowest numbered channel is displayed.

Channels that can be received on this TV:
VHF: 2 – 13
UHF: 14 – 69
Cable: 1 – 125

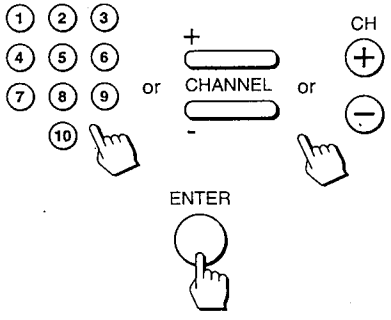
To check preset channels
Press CH +/– on the TV or the Remote Commander.

Presetting only desired channels or erasing unnecessary channels

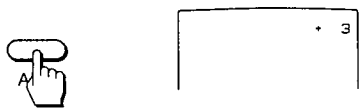


1 Set the SEEK/DIRECT selector to DIRECT.

2 To select a channel, press the 0 – 9 buttons (to add channels) or CHANNEL +/– (CH +/–) (to erase channels); then press ENTER.

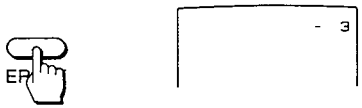


3 Press ADD to add channels.



A "+" appears before the number for a moment. This channel has now been added to the channel scan memory.

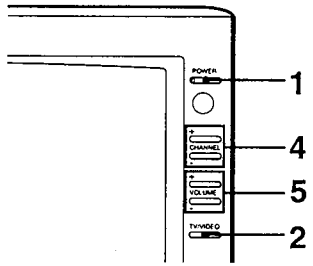
Press ERASE to erase channels.

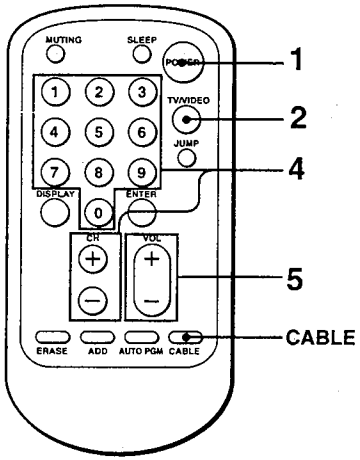


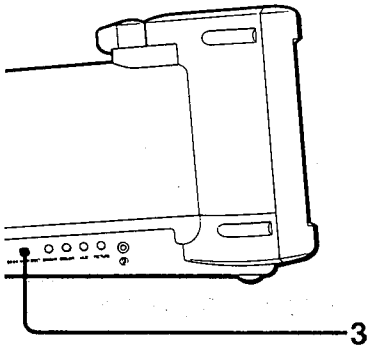
A "–" appears before the number for a moment. This channel has now been erased from the channel scan memory. The next time you press the CH +/– buttons, this channel will be skipped.

Repeat steps 1 and 2 to add or erase other channels.

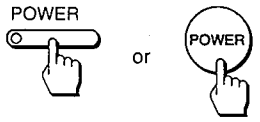
1-3. WATCHING TV PROGRAMS





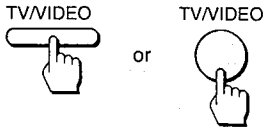


1 Press POWER on the TV or the Remote Commander to turn the TV on.



Note
The first time you use the TV, press POWER on the TV to turn the power on.

2 Press the TV/VIDEO button on the TV or the Remote Commander to select TV mode.
(TV and VIDEO modes are selected in sequence.)

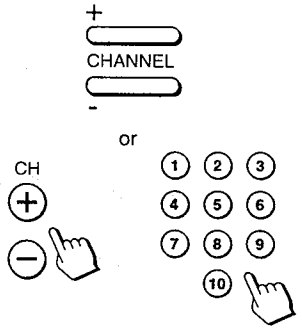


3 Set the SEEK/DIRECT selector to choose the method you prefer for selecting channels.

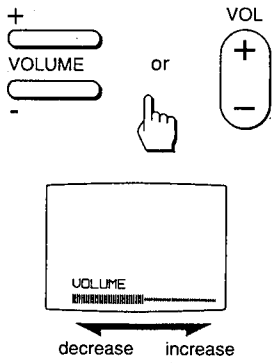
SEEK mode
Press CHANNEL +/– on the TV, or CH +/– on the Remote Commander to select receivable channels only. (You can also select channels using the 0 – 9 buttons.) Use SEEK mode to improve channel reception while viewing your TV in a car.

DIRECT mode
Press the 0 – 9 buttons on the Remote Commander to select a channel directly. (When you press CHANNEL +/– or CH +/–, non-receiving channels will also be selected.)

4 Press CHANNEL +/– on the TV, or press CH +/– or 0 – 9 buttons on the Remote Commander to select the channel you want to watch.



5 Press VOLUME +/– on the TV or VOL +/– on the Remote Commander to adjust the volume.
To increase volume, press " + ".
To decrease volume, press " – ".



To watch cable TV channels
Press CABLE (the "C" display will appear) and select channels directly.
When you want to watch VHF/UHF channels, press CABLE again so that the "C" display disappears.

To turn the TV off.
Press POWER on the TV or on the Remote Commander.

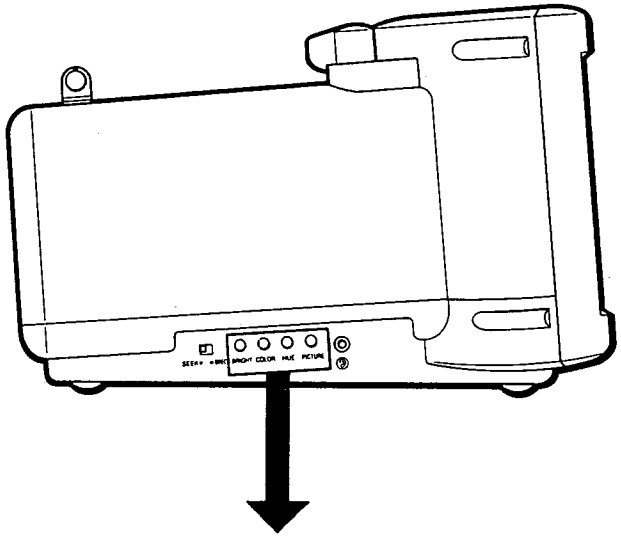
Note
When you erase a VHF or UHF channel, the cable TV channel with the same number is also erased, and vice versa.

Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding cable TV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W + 1
38	W + 2
39	W + 3
⋮	⋮
93	W + 57
94	W + 58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W + 59
101	W + 60
102	W + 61
⋮	⋮
123	W + 82
124	W + 83
125	W + 84

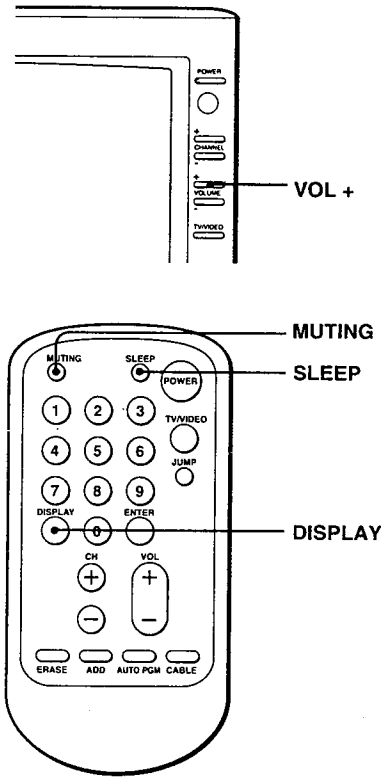
* This designation of cable TV channels conforms to the EIA/NCTA recommendation. Check with your local cable TV company for more complete information on the available channels.

1-4. ADJUSTING PICTURE QUALITY



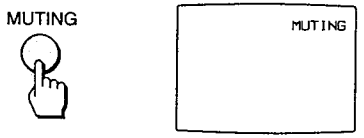
To increase brightness	To decrease brightness	To increase color intensity	To decrease color intensity	Skin tones become greenish	Skin tones become purplish	To increase picture contrast	To decrease picture contrast
BRIGHT		COLOR		HUE		PICTURE	

1-5. USING OTHER CONVENIENT FEATURES



Muting the sound

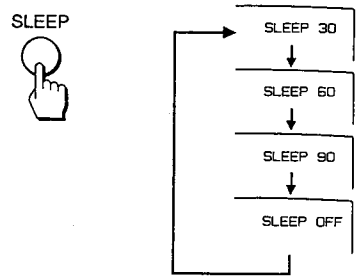
Press MUTING to mute the TV sound.



To turn muting off
Press MUTING again, or VOL +.

Setting the sleep timer

Press SLEEP to set the TV to turn off in the amount of time you choose. Each time you press SLEEP, the time increments 30, 60 and 90 are selected in sequence.

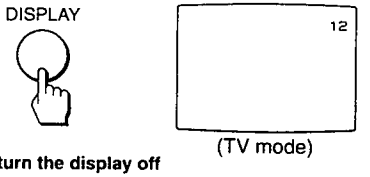


The "SLEEP" display (red) will appear 1 minute before the TV turns off.

To turn the sleep timer off
Press SLEEP once more after 90.

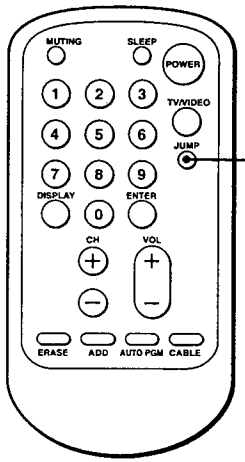
Displaying the input mode

Press DISPLAY. The current input modes (channel, TV/VIDEO) will be displayed on the screen.



(TV mode)

To turn the display off
Press DISPLAY again.



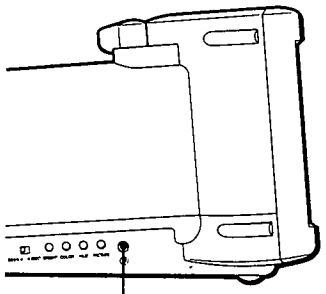
JUMP

Switching quickly between 2 channels

Press JUMP once to recall the channel you were watching previously; press JUMP again to switch back. Use this feature to keep track of two programs alternately.

Listening through an earphone

You can listen to the TV's sound through an optional earphone connected to an earphone jack.

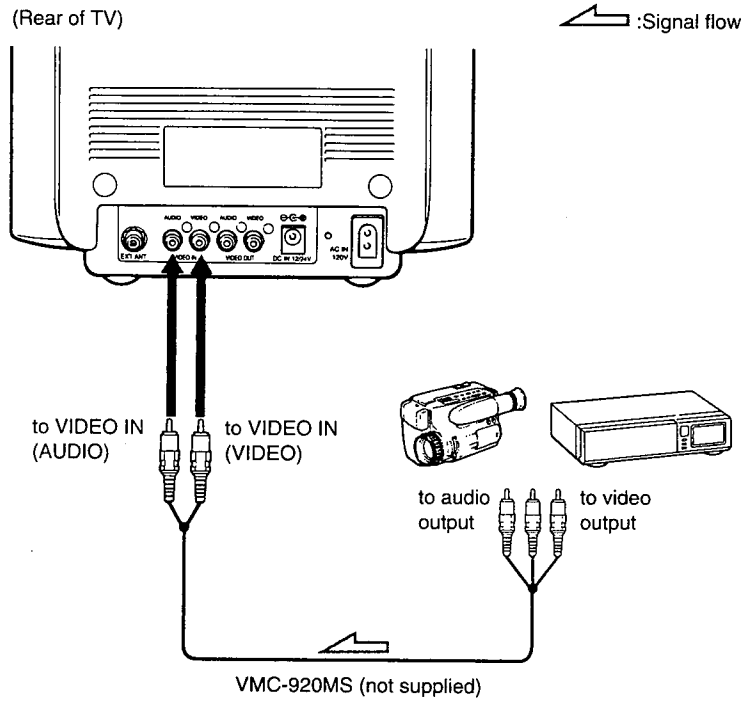


Earphone jack

1-6. CONNECTING VIDEO EQUIPMENT

Connecting a VCR or 8mm video camera

Before connecting, turn off the power on all equipment.



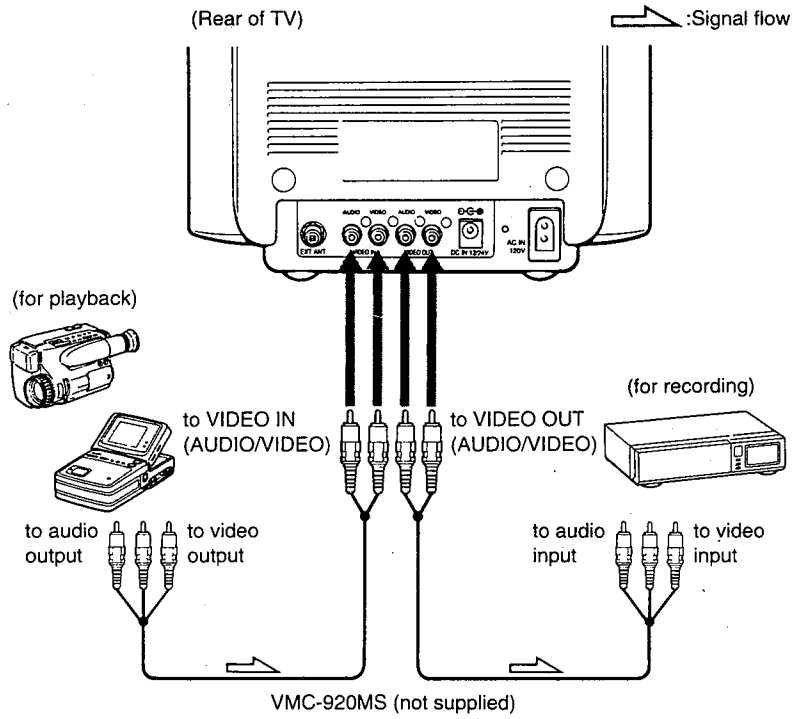
Watching a VCR picture

1 Turn on the TV.

2 Press the TV/VIDEO button on the TV or the Remote Commander so that "VIDEO" appears on the screen.

To return to TV mode
Press the TV/VIDEO button on the TV or the Remote Commander so that a channel number appears on the screen.

Connecting two VCRs for tape editing



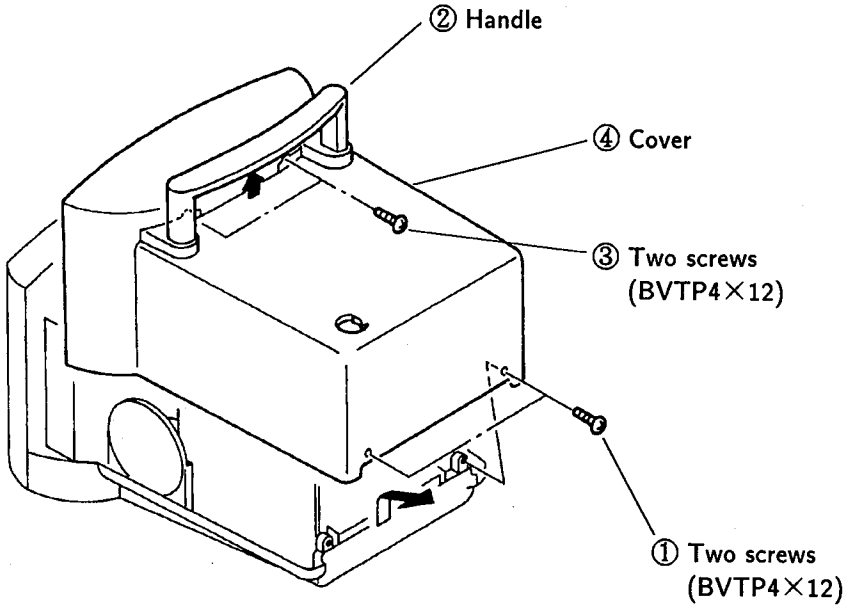
Notes

- Move the VCR away from the TV, if the display or sound is affected.
- For operating instructions, refer to the instruction manual furnished with the VCR.

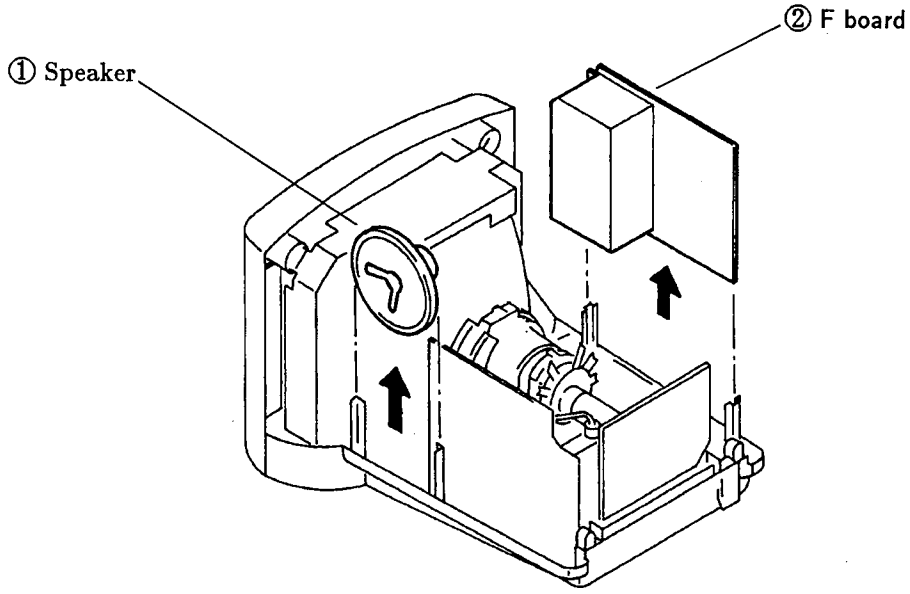
SECTION 2
DISASSEMBLY

2-1. COVER REMOVAL

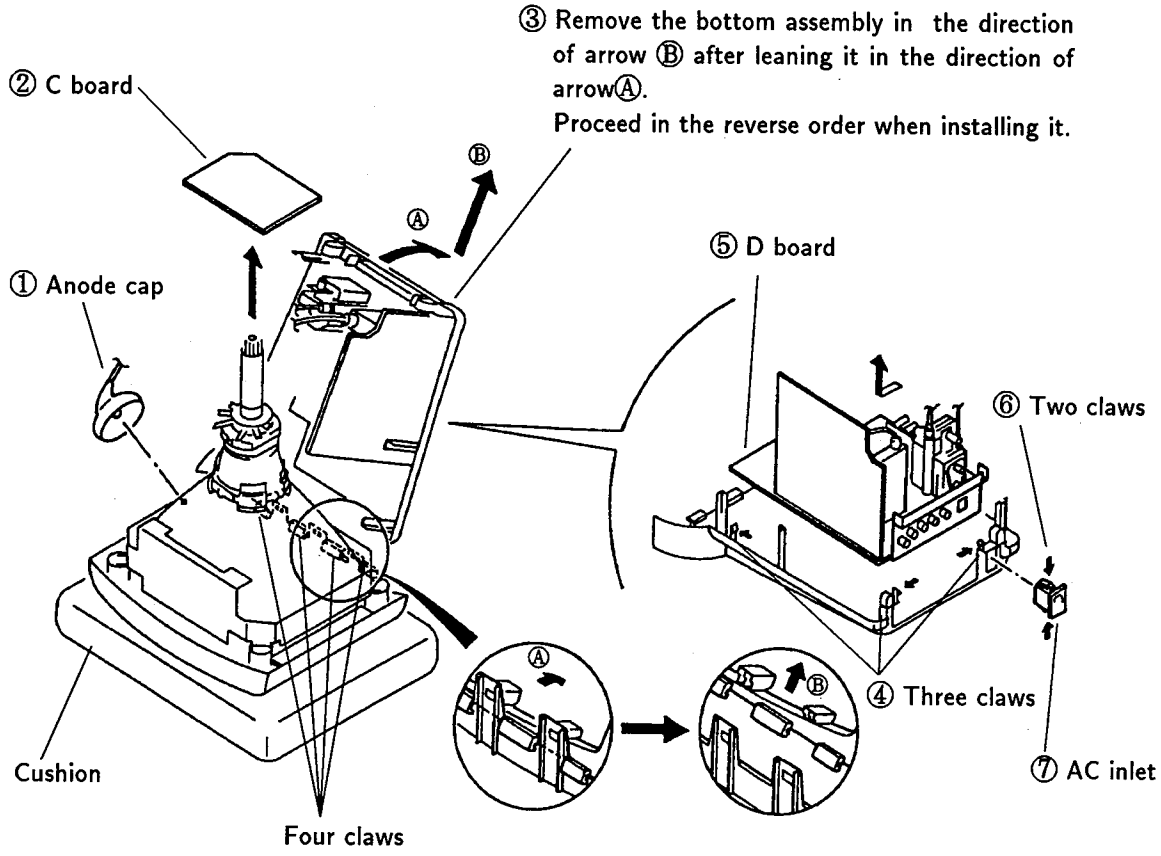
NOTE : Follow the disassembly procedure in the numerical over given.



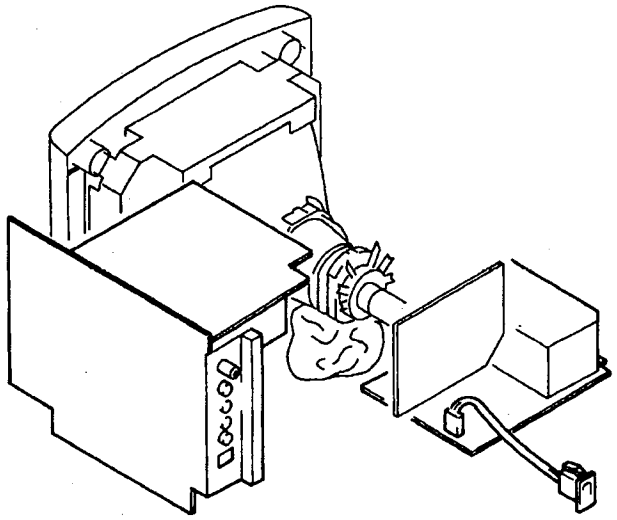
2-2. SPEAKER AND F BOARD REMOVAL



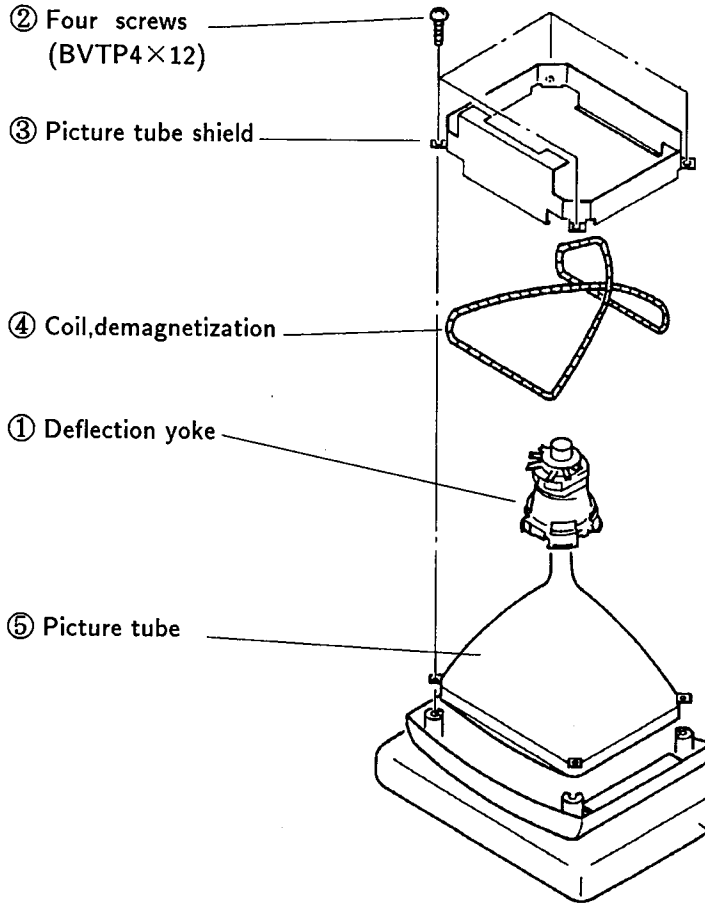
2-3. D BOARD REMOVAL


③ Remove the bottom assembly in the direction of arrow Ⓑ after leaning it in the direction of arrowⒶ.
Proceed in the reverse order when installing it.
② C board
Ⓑ
Ⓐ
① Anode cap
⑤ D board
⑥ Two claws
④ Three claws
⑦ AC inlet
Cushion
Four claws

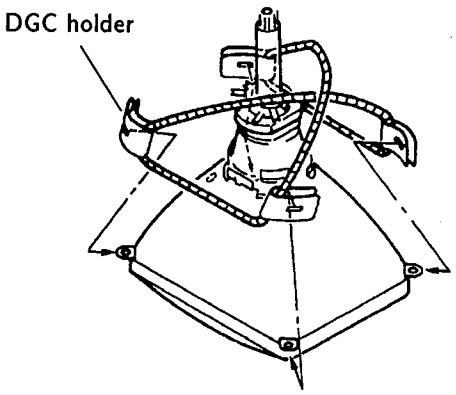
2-4. SERVICE POSITION



2-5. PICTURE TUBE REMOVAL



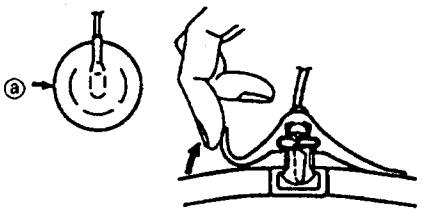
Before replacing the CRT, use the DGC holder for the CRT as shown in the illustration, and wind the DGC.



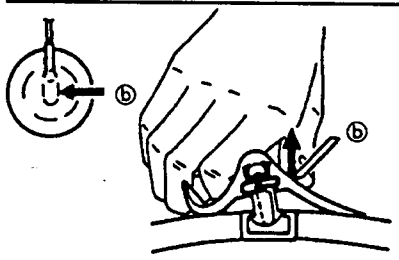
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis,CRT shield,or carbon painted on the CRT,after removing the anode.

• REMOVAL OF ANODE-CAP

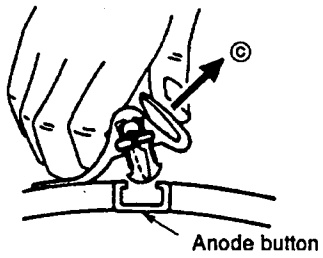
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



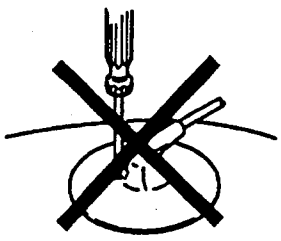
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

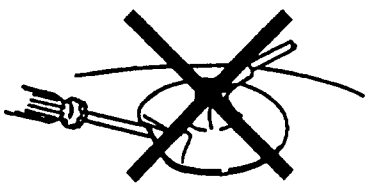
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





MEMO

SECTION 3
SET-UP ADJUSTMENTS

● The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

● These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted :

PICTURE control ..... normal

BRIGHTNESS control ..... normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

Note: Test Equipment Required.

1. Color bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

Preparation:

● Feed in the white pattern signal.

● Before starting, degauss the entire screen.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets. (Fig.4)

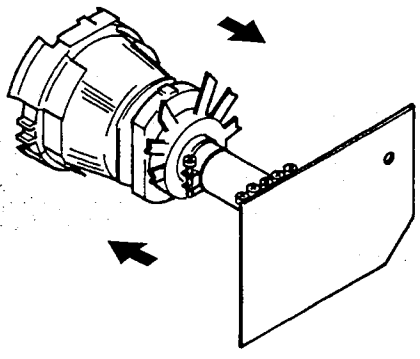


Fig.1

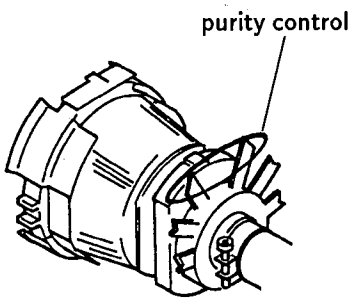


Fig.2

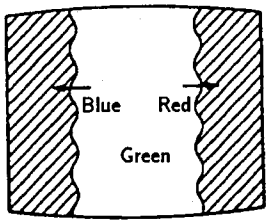


Fig.3

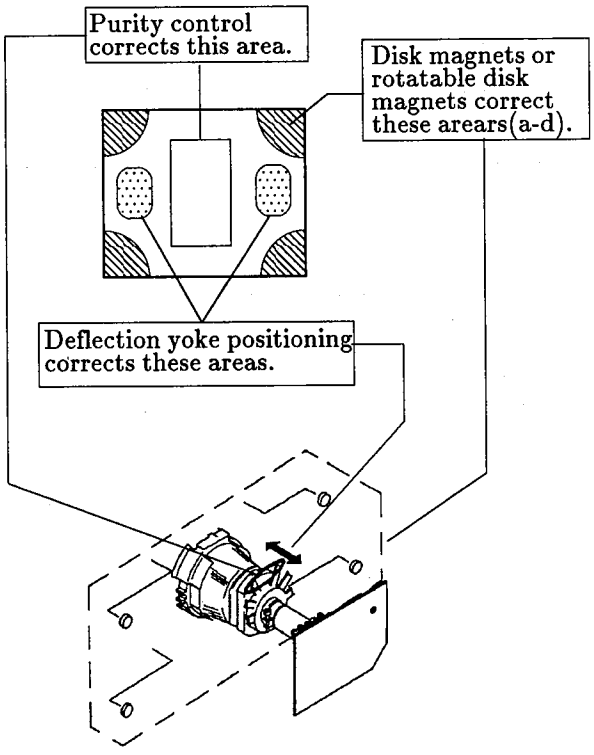

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these arears(a-d).
Deflection yoke positioning corrects these areas.

Fig.4

3-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

(1) Horizontal and Vertical Static Convergence

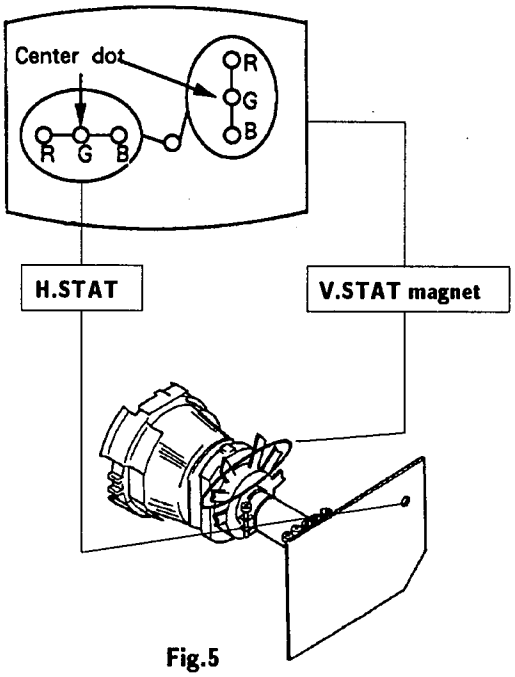
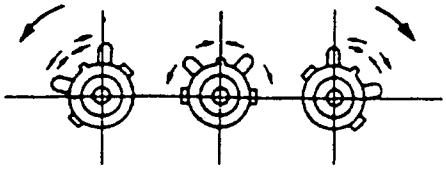


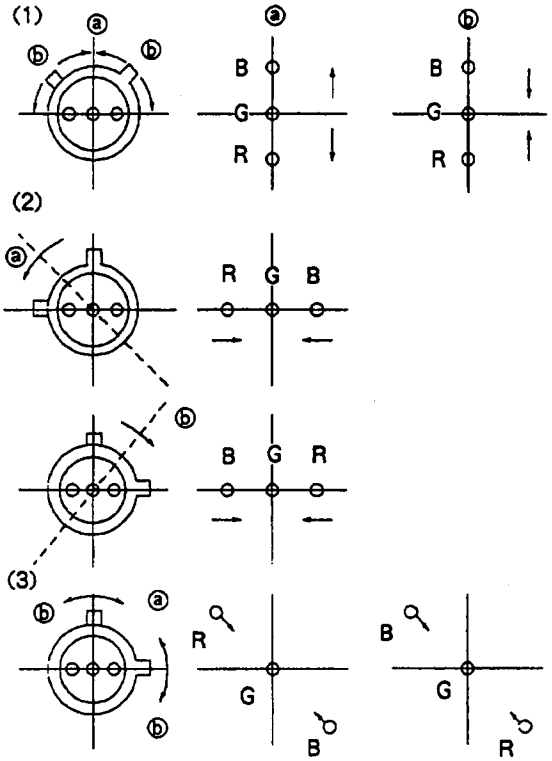
Fig.5

1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)

- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4.When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.



✻ IF the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

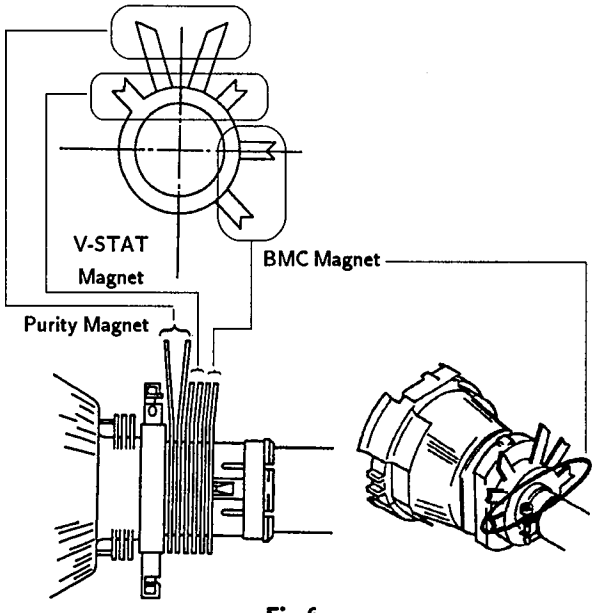
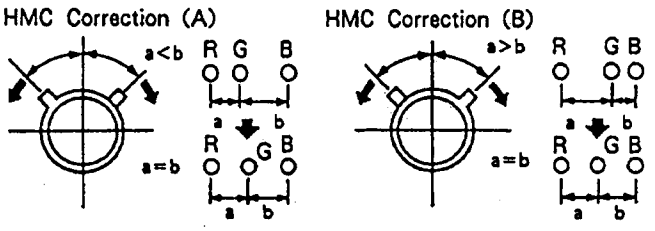


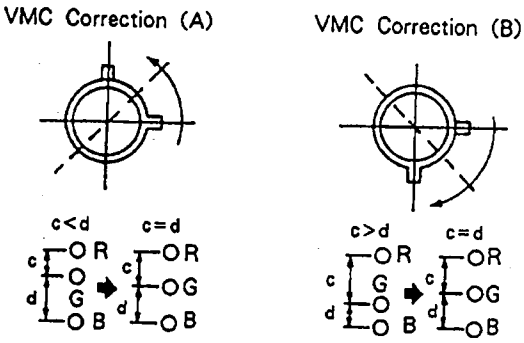
Fig.6

● HMC and VMC correction for BMC (6-polse) magnet.

1. HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



2. VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



(2)Dynamic Convergence Adjustment

Preparation:

● Before starting perform Horizontal and Vertical static convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

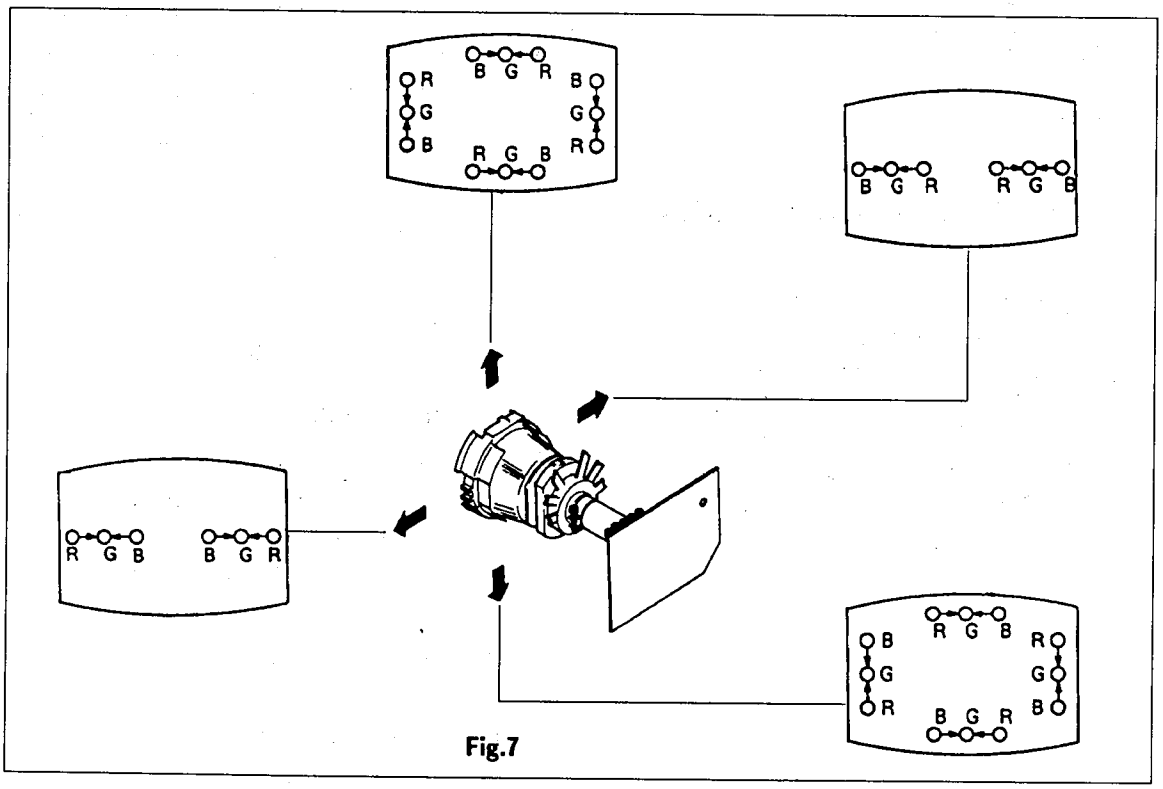


Fig.7

(3) Screen-corner Convergence

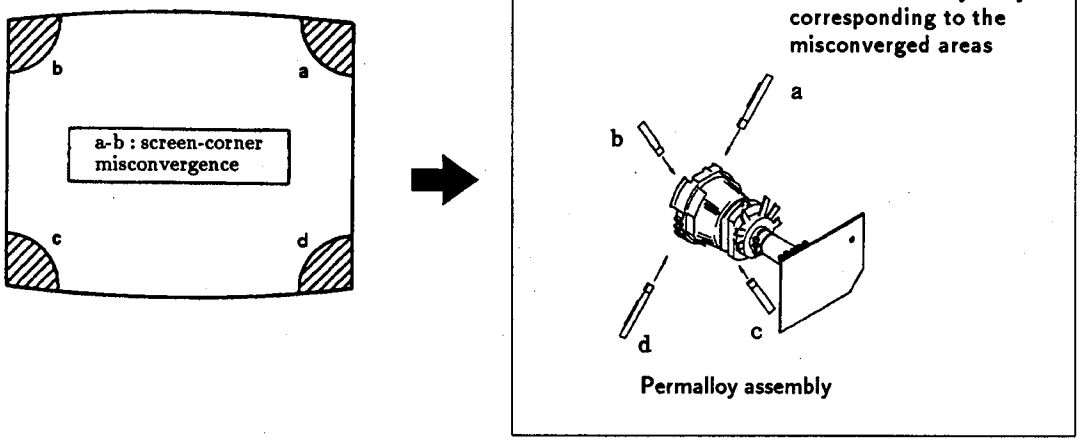


Fig.8

3-3. FOCUS

Adjust FOCUS control (FBT) for best picture.

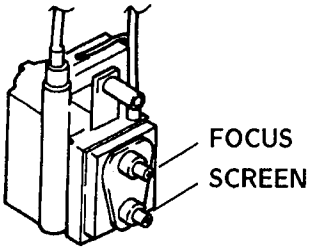


Fig.9

3-4. SCREEN(G 2) and WHITE BALANCE

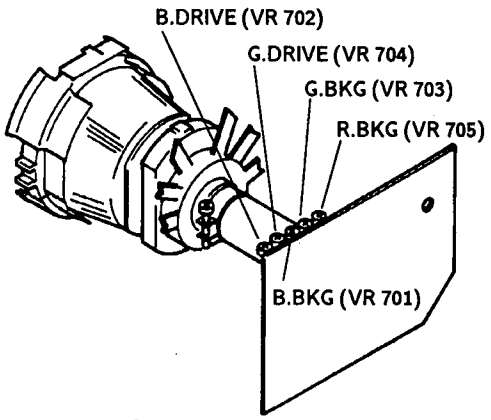


Fig.10

[SCREEN(G2)]

1. Input a dots pattarn.
2. Set the PIC, BRT controls at minimum and COLOR control at normal.
3. Adjust BKG VRs (RV 701, RV 703 and RV 705) so that voltages on the red, green and blue cathodes are 100 V dc with an oscilloscope as shown in Fig.11.
4. Observe the screen and adjust SCREEN VR (FBT) to obtain the faintly visible background of dot signal.

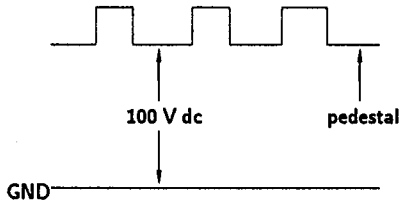


Fig.11

[WHITE BALANCE]

1. Receive a all white signal using a pattern generator.
2. Set the PIC control to minimum and set the BRT control at normal.
3. Adjust BKG controls (VR701, 703, 705)for best white balance.
4. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls (VR 702, 704) for best white balance.
5. Repeat steps 3 and 4.

SECTION 4
SAFETY RELATED ADJUSTMENTS

⧓ R879, R840, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENT

The following adjustment should be performed when replacing the following components.
(Marked with ◪ on the schematic diagram)
R 240, R 814, R 879, R 840, D 805, C 812, C 825

1. Receive a color bar signal.
2. Set the picture volume and brightness at center click position.
3. Confirm that 16 V DC voltage is output to TP 101 on A borad.
4. Next, apply 19.3 V DC external voltage to TP 101 and confirm that it hold down.
5. When step 4 is not satisfied, readjustment should be performed by altering the resistance value of R 879 and R 840. (D board marked with ⧓)

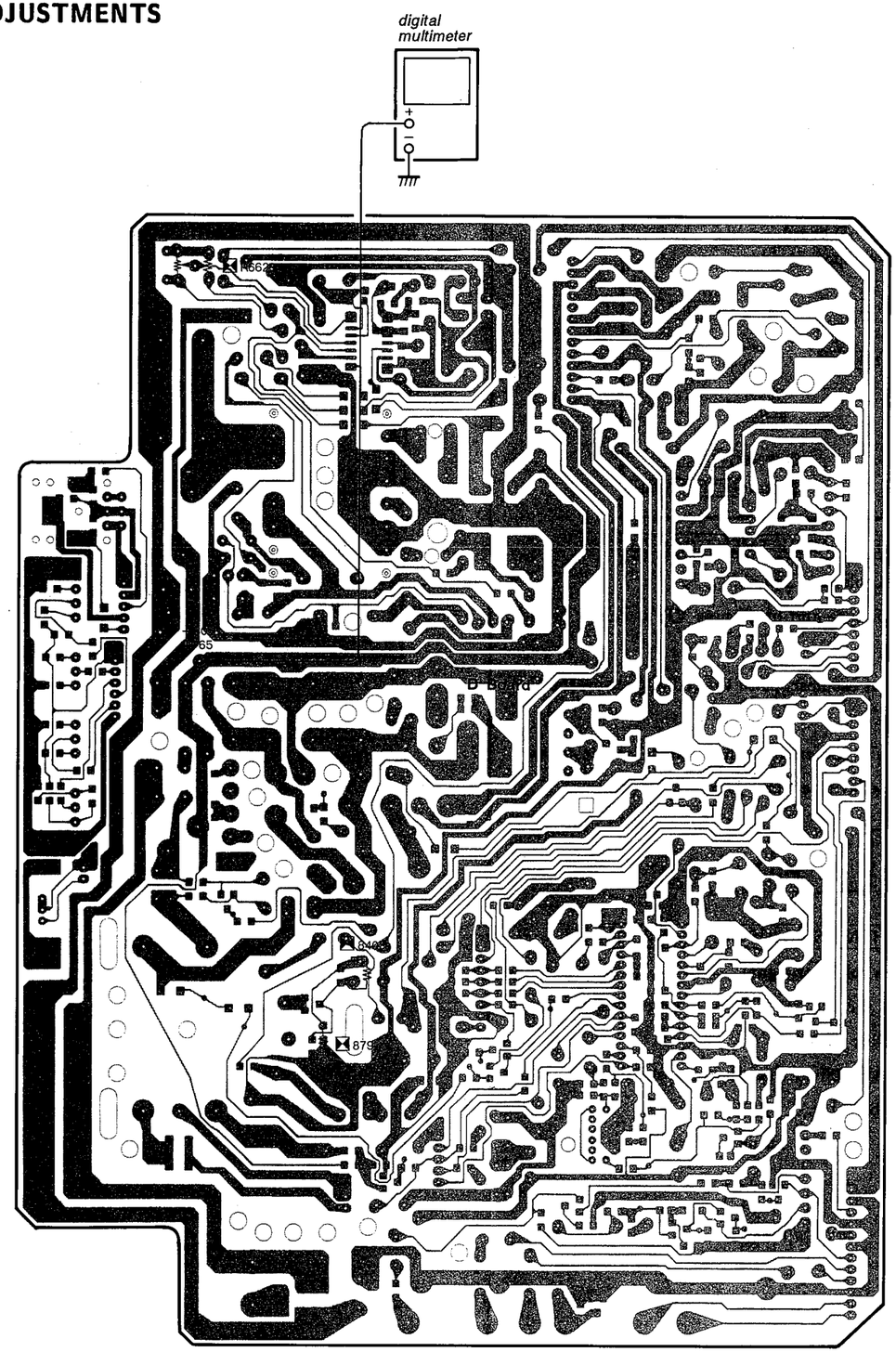
⧓ R662, VR 651, B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

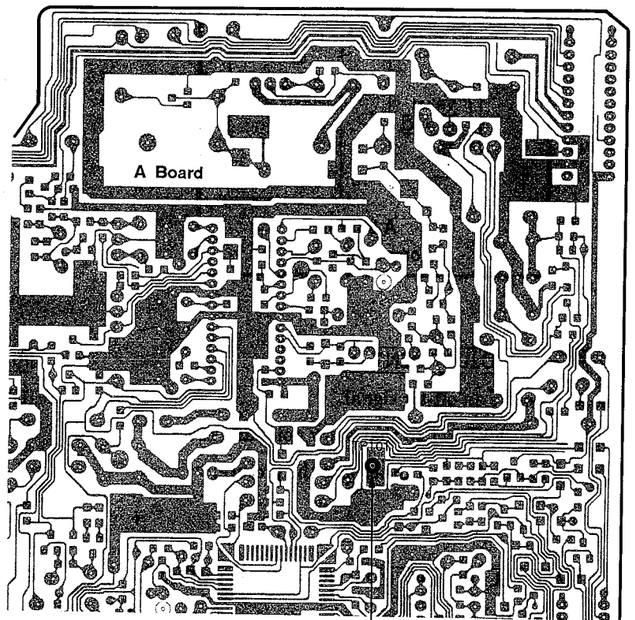
The following adjustment should be performed when replacing the following components.
(Marked with ◪ on the schematic diagram)
R 660, R 661, R 662, R 665, VR 651, IC 652

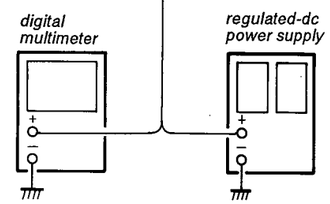
1. Set the power source to 120 V±5% AC.
2. Receive a color bar signal.
3. Set the picture volume and brightness at the center click position.
4. Adjust VR 651 (30 V ADJ), then adjust the +B power source. At this time, confirm that the power is 30.3±0.1 V DC. (TP 651 on A board)
5. When step 4 is not satisfied, readjustment should be performed by altering the resistance value of R 662 and VR 651. (D board marked with ⧓)

CONFIRMATION AFTER REPLACING FBT

Confirm that 16 V±1 V DC voltage is output to TP 101 when replacing the flyback transformer.



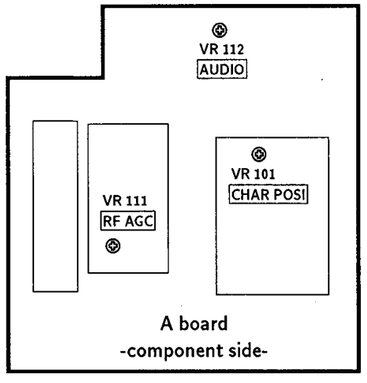




KV-8AD11/8AD14 RM-792/793

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. A BORAD ADJUSTMENTS

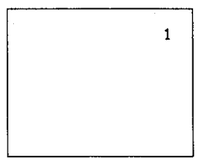


RF AGC ADJUSTMENT (VR 111)

1. Receive an off-air signal.
2. Adjust VR111 so that snow noise and cross-modulation just disappear the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT (VR 101)

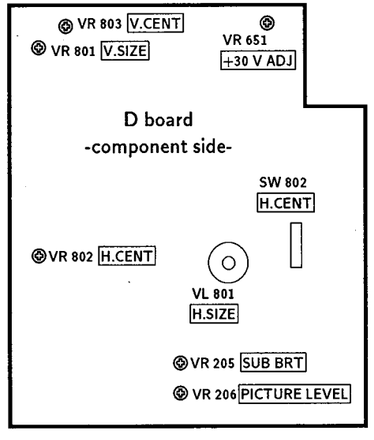
1. Adjust VR101 so that CHANNEL display position comes to the position shown in the figure.



AUDIO ADJUSTMENT (VR 112)

1. Receive a broadcast signal.
2. Adjust VR 112 so that the sound become optimum with minimum distortion.

5-2. D BORAD ADJUSTMENTS

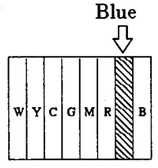


PICTURE LEVEL ADJUSTMENT (VR 206)

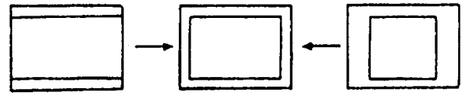
1. Receive a color bay signal.
2. Set the picture and brightness VR at center click position.
3. Connect at oscilloscope to the red output on the C board.
4. Adjust VR 206 so that the balance of the black and white level becomes 49 Vp-p.

SUB-BRIGHTNESS ADJUSTMENT (VR 205)

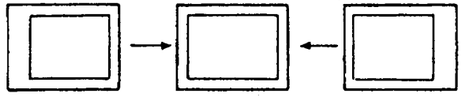
1. Receive a color bar signal.
2. Set the picture to MIN and brightness at the center click position.
3. Adjust VR 305 so that the blue section becomes slightly brighter.



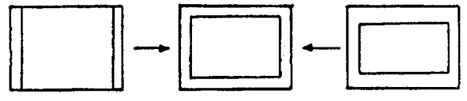
VL 801 H.SIZE (HORIZONTAL SIZE)



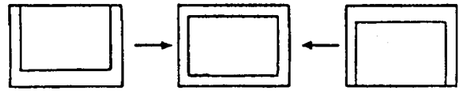
SW802, VR802 H.CENT (HORIZONTAL CENTER)



VR 801 V.SIZE (VERTICAL SIZE)



VR 803 V.CENT (VERTICAL CENTER)



+B ADJUSTMENT (VR 651)

1. Adjust VR 651 (30 V ADJ) so that TP 651 is 30.3± 0.1 V DC.

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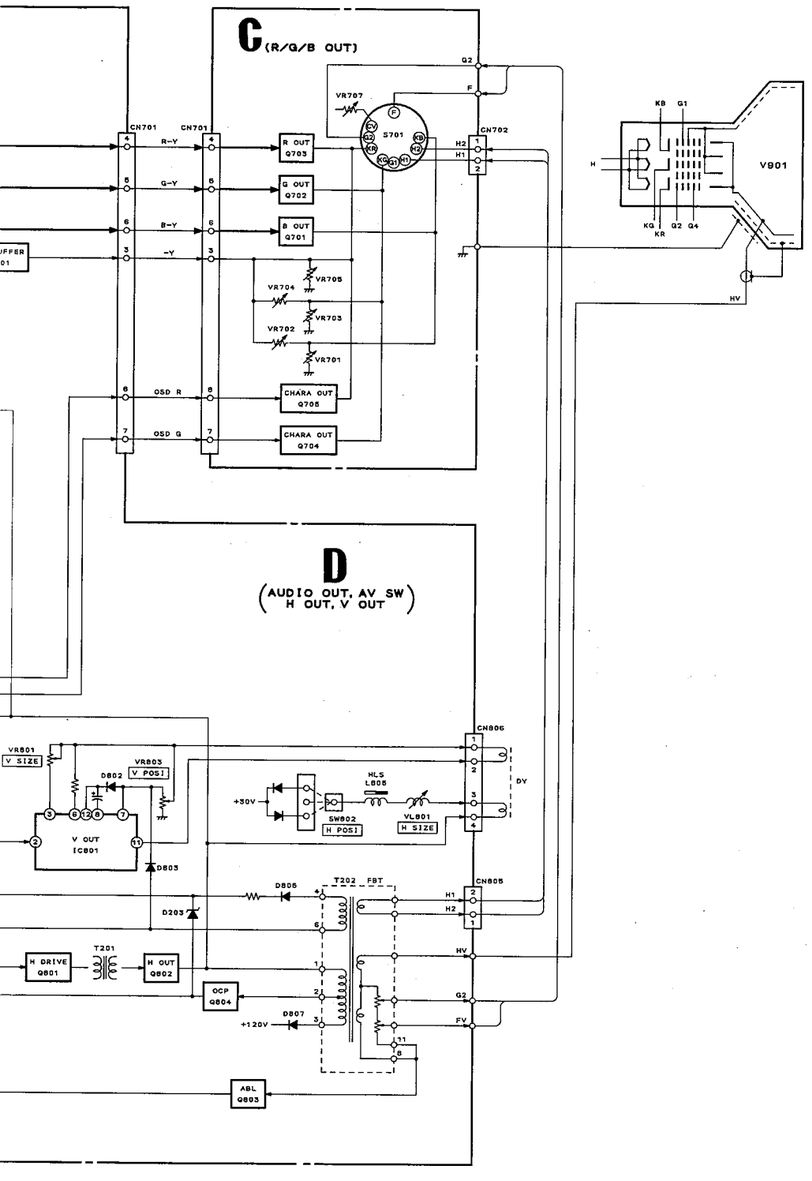
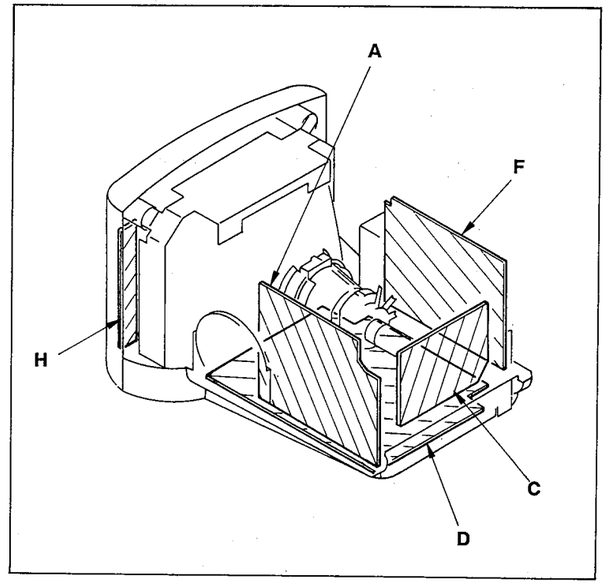


6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

D [AUDIO OUT, AV SW, H OUT, V OUT]

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

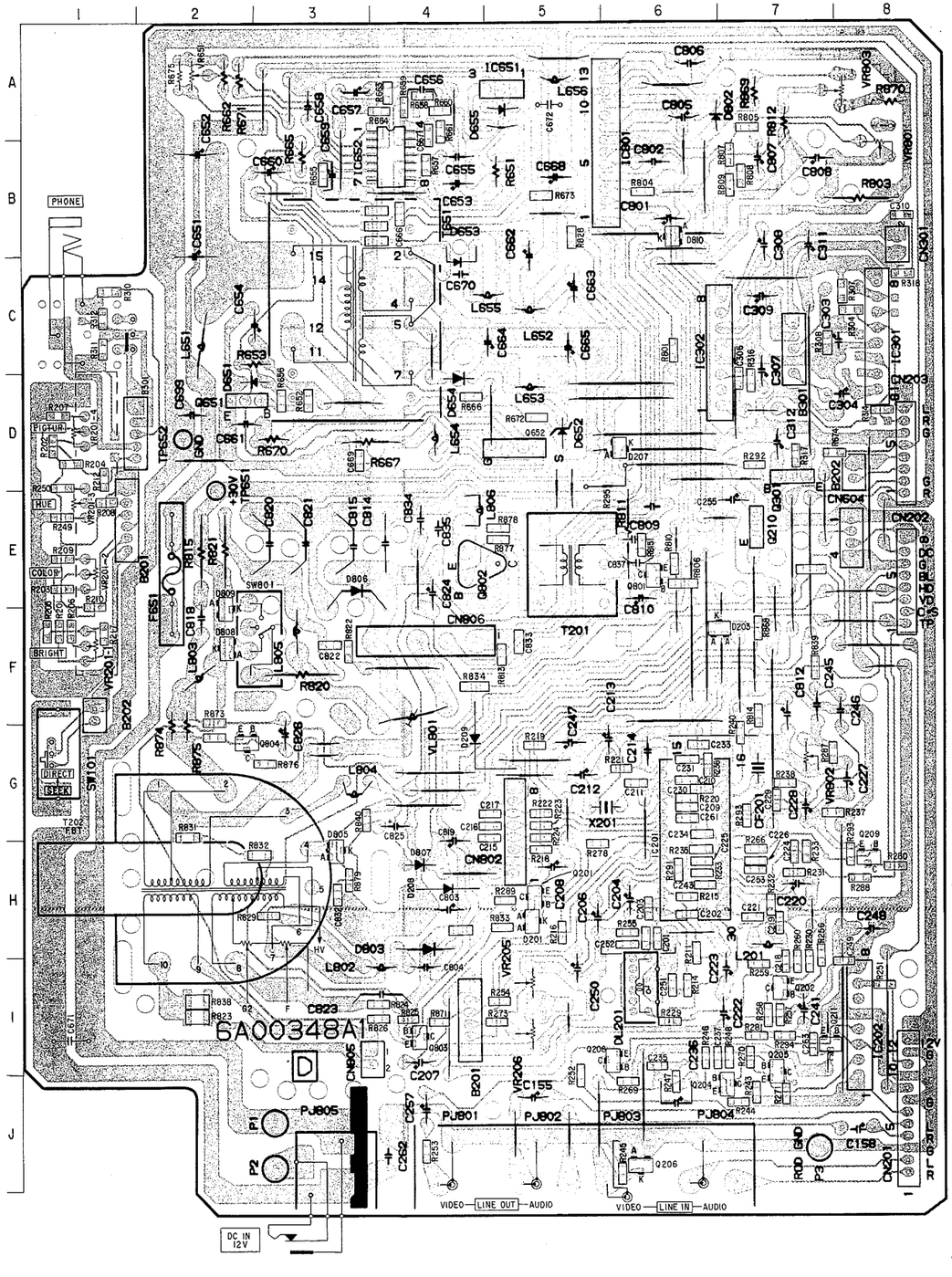
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. kΩ =1000Ω , MΩ =1000KΩ
- All resistors are in ohms, 1/10W unless otherwise noted. kΩ : 1000Ω , MΩ : 1000KΩ
- ⊣▭⊢ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : primary earth
- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved. (Refer to R840, R879, R662 and VR651 adjustment on page 21 – 22)
  When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment (⊠)
R240, R814, R840, R879, D805, C812, C825	R840, R879 (HV HOLD DOWN)
R660, R661, R662, R665, VR651, IC652	R662, RV651 (+B MAX)

- Readings are taken with a color-bar signal input.
- no mark : VHF IN
- Readings are taken with a 10MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circuled numbers are waveform references.
- ▬▬ : B+ bus.
- ▒▒ : signal path.
- ▭ : adjustment for repair or semiconductor function.

– D Board –



Đ BOARĐ

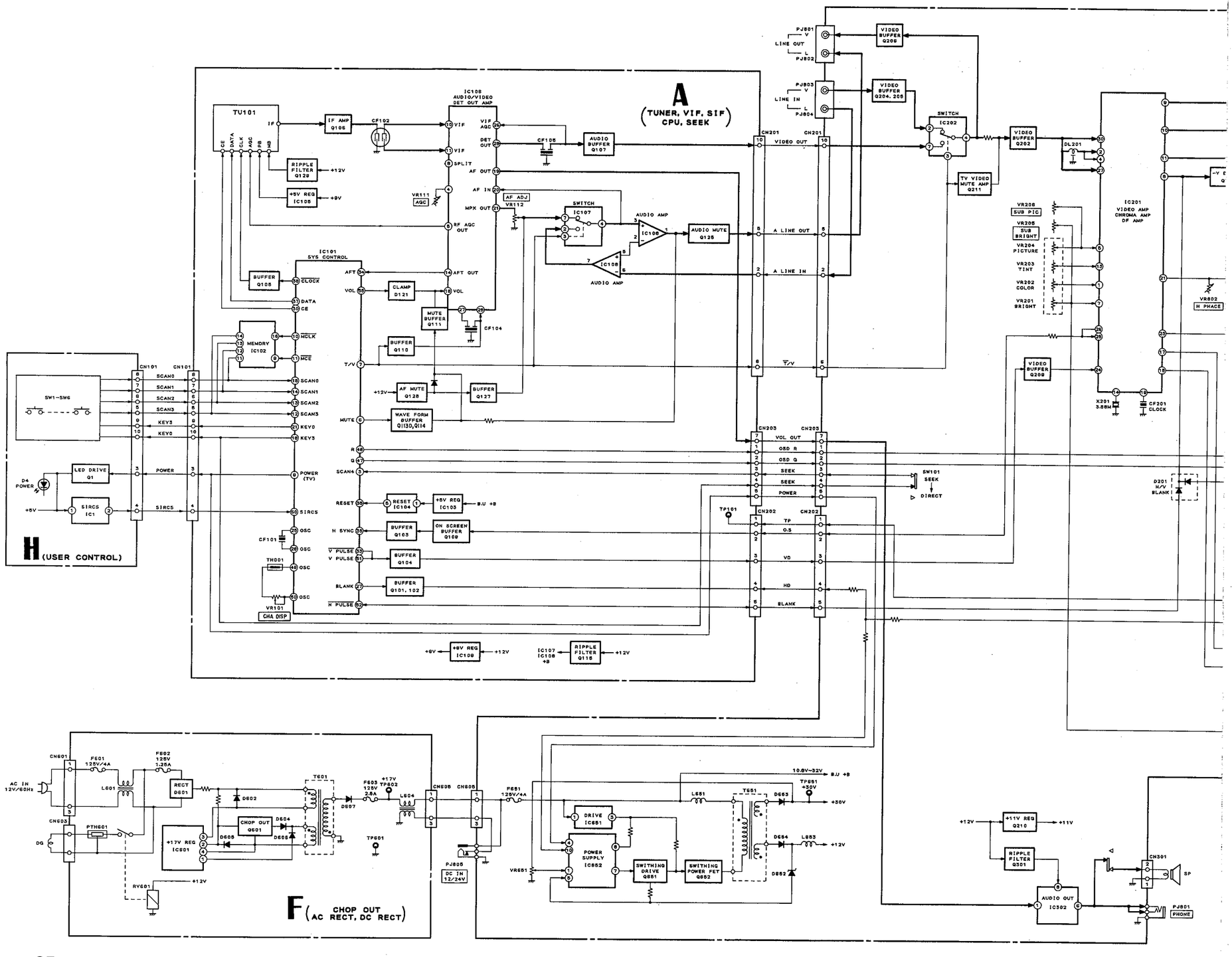
IC		VARIABLE RESISTOR	
IC201	G-6	VR201	E-1
202	I-8	205	I-5
302	C-6	206	I-5
651	A-5	651	A-2
652	B-4	801	B-8
801	A-6	802	G-7
		803	A-8

TRANSISTOR		VL	
Q201	H-5	VL801	F-4
202	I-7		
204	J-7		
205	I-7		
206	I-6		
209	H-8		
210	E-7		
211	I-7		
301	Đ-7	TEST POINT	
651	Đ-2	TP651	Đ-2
652	Đ-5	652	Đ-2
801	E-6		
802	E-4		
803	I-4		
804	G-2		

ĐIOĐE	
Đ201	H-5
203	F-7
206	J-6
207	Đ-6
651	Đ-2
652	Đ-5
653	C-4
654	Đ-4
655	A-5
802	A-6
803	H-4
805	H-3
806	E-3
807	H-4
808	F-2
809	F-2
810	B-6

SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM



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F [CHOP OUT, AC RECT, DC RECT] **C** [RGB•OUT]

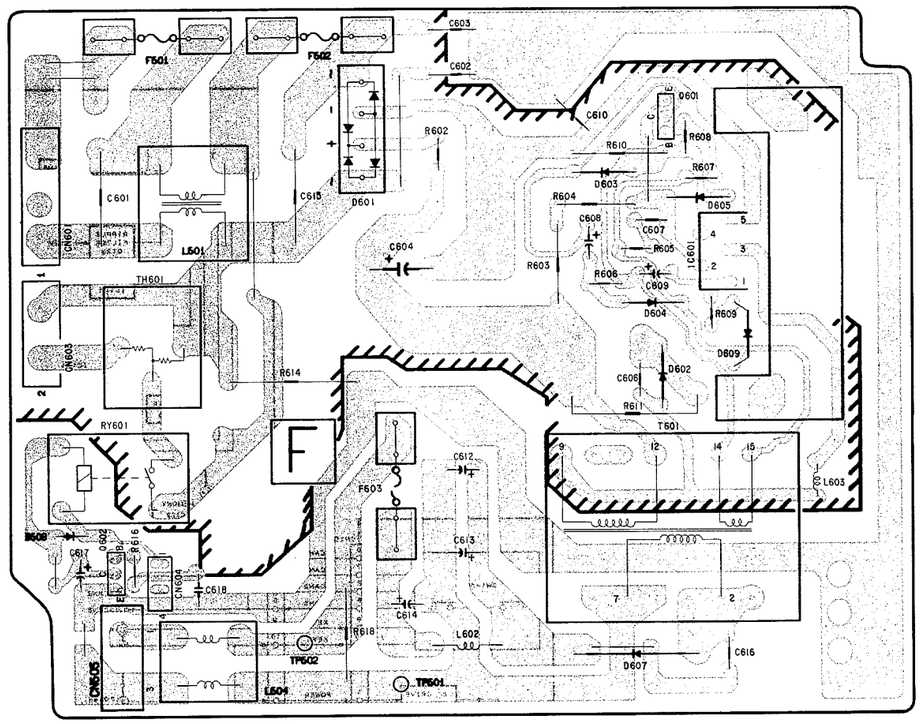
Đ BOARĐ

① 2.5Vp-p (H)	② 2.5Vp-p (H)	③ 2.5Vp-p (H)
④ 2.5Vp-p (H)	⑤ 2.0Vp-p (H)	⑥ 5.2Vp-p (H)
⑦ 3.2Vp-p (V)	⑧ 1.7Vp-p (H)	⑨ 10.4Vp-p (V)
⑩ 3.0Vp-p (H)	⑪ 1.2Vp-p (H)	⑫ 3.2Vp-p (H)
⑬ 10.2Vp-p (H)	⑭ 5.3Vp-p (H)	⑮ 3.5Vp-p (V)
⑯ 51.2Vp-p (V)	⑰ 0.9Vp-p (H)	⑱ 42.4Vp-p (H)
⑲ 5.5Vp-p (H)	⑳ 314Vp-p (H)	

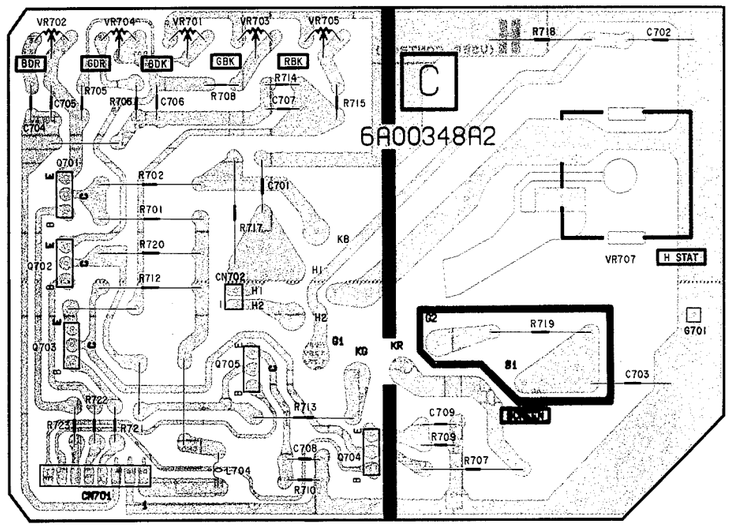
C BOARĐ

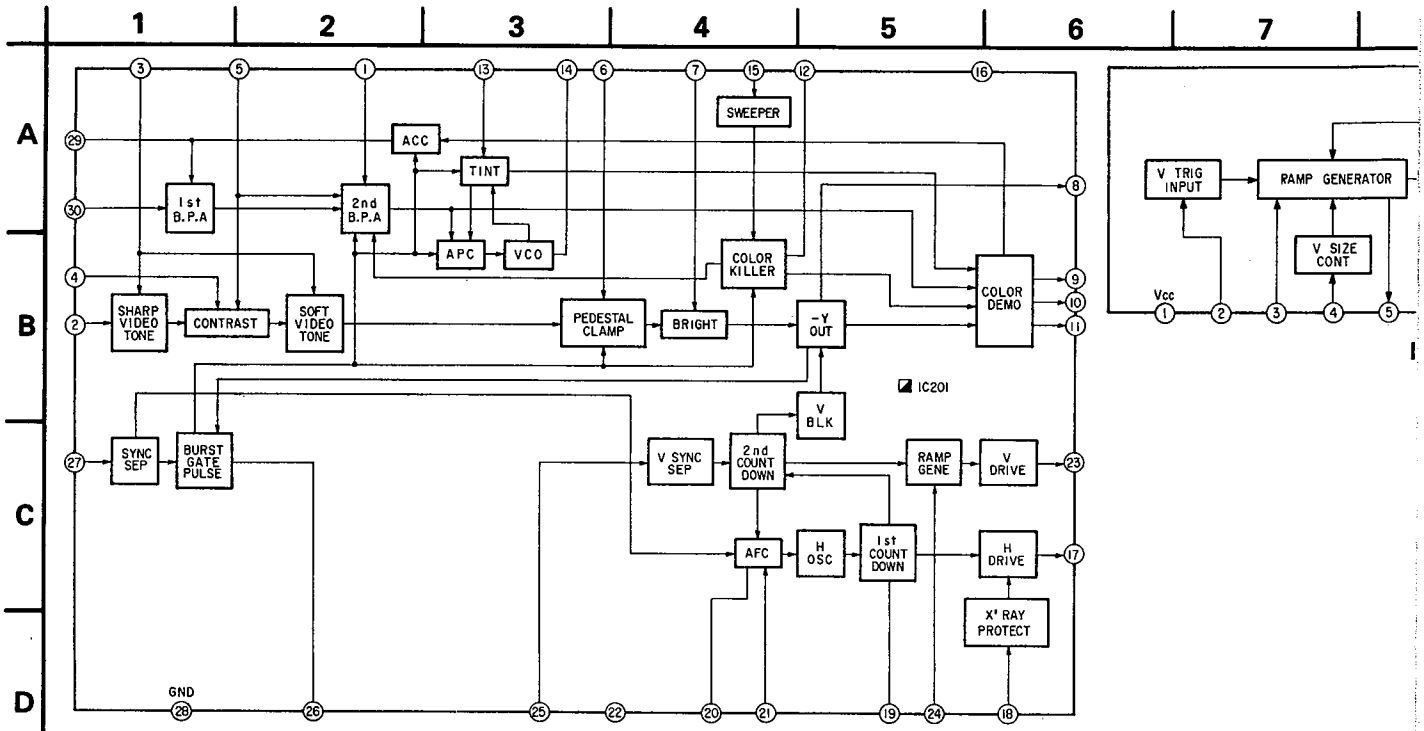
① 80Vp-p (H)	② 76.5Vp-p (H)	③ 78Vp-p (H)
④ 18.6 Vp-p (V)		

– F Board –



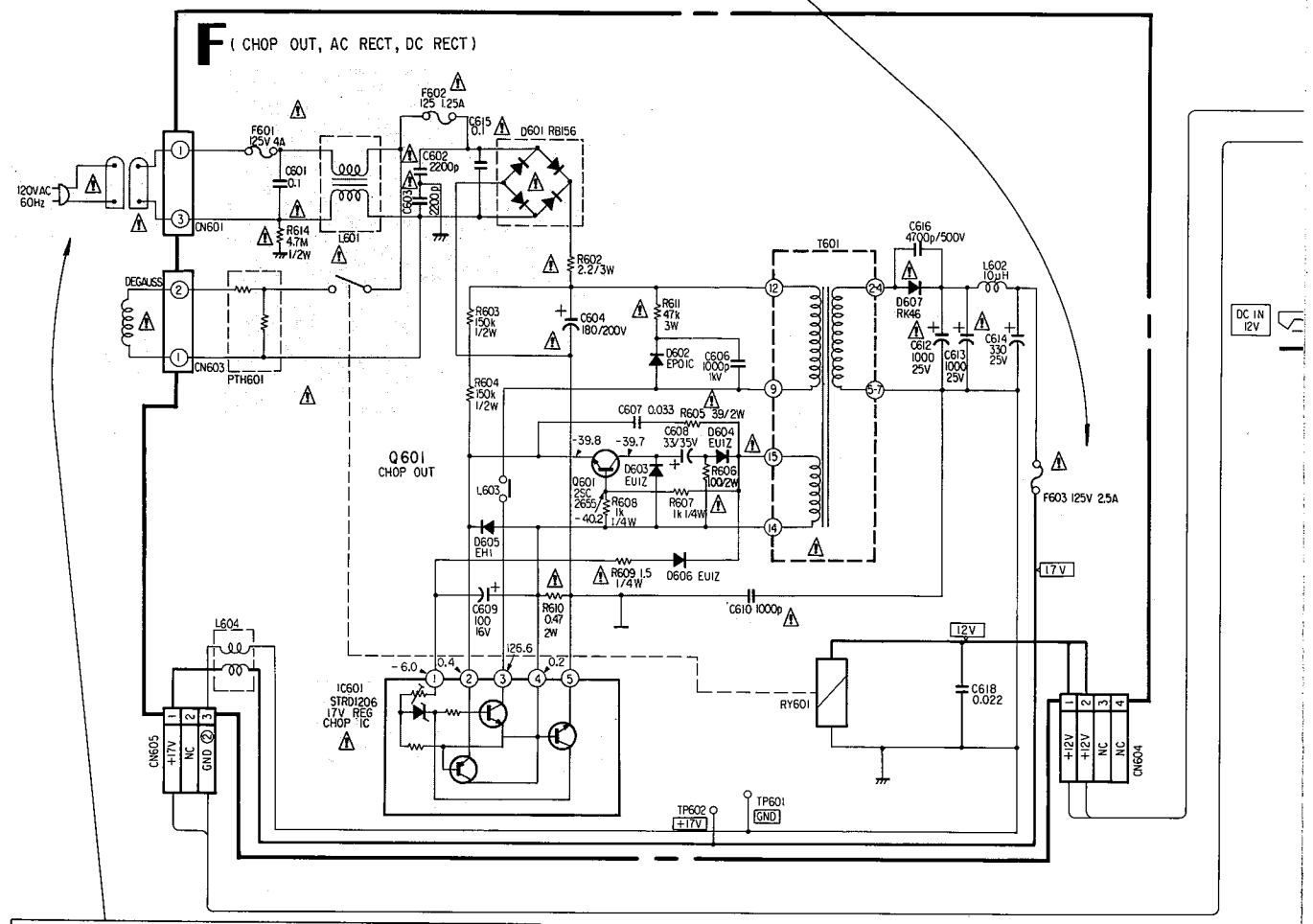
– C Board –





IC201 LA7626

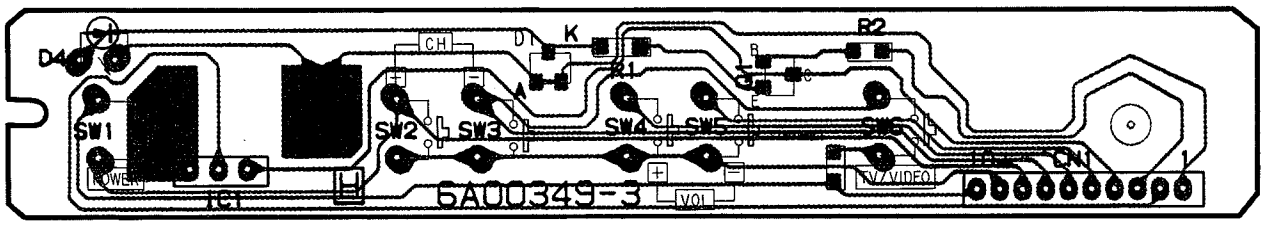
CAUTION
When talking a broken fuse (F603) off, discharge across C614 to avoid shock hazard.



CAUTION
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power code, be sure to connect it with specified part number as shown in this diagram.

H [USER CONTROL]

– H Board –



KV-8AD11/8AD14
RM-792/793

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

A B C D E F G H I J

V DRIVE
V OUT
PUMP UP
GND
C801 LA7835

C (RGB OUT)
CN702 H1 H2
CN701(1/3) 120V GND
CN701(2/3) B-Y G-Y R-Y -Y
CN701(3/3) OSD R OSD G
Q701 B OUT
Q702 G OUT
Q703 R OUT
Q704·705 CHARA OUT
V901 A20JKU10X PICTURE TUBE

RV701	B. BKG
RV702	B. DRIVE
RV703	G. BKG
RV704	G. DRIVE
RV705	R. BKG
RV707	H. STAT

D (AUDIO OUT, AV SW, H OUT, V OUT)
IC652 μpc1394G
IC651 M5F78M09L DRIVE
T651
Q651 2SK1429 SWITCHING DRIVE
Q652 SWITCHING POWER FET
SW101 DIRECT SEEK
CN603 CN602 CN601 CN604 CN605 CN802(3/3) CN802(2/3) CN806 CN805 CN301
PJ801 PJ802 PJ803 PJ804 PJ805 PJ807
SP901

Q201 Y BUFFER
Q202 VIDEO BUFFER
Q211 TV/VIDEO MUTE AMP
IC202 LA7016 TV/VIDEO SELECTOR
Q204·205·206 VIDEO BUFFER
Q209 2SA1235 VIDEO BUFFER
IC201 LA7626 Y/C JUNGLE
IC302 μPC1241H AUDIO OUT
Q301 RIPPLE FILTER
Q210 REG
IC801 LA7835 V OUT
Q801 H DRIVE
Q802 H OUT
Q804 OCP
T201 HDT
T202 FBT

: See page 21, 22

CAUTION
When replacing T202, be sure to check the point voltage value (TP101). Refer to the Safety Adjustment Section.

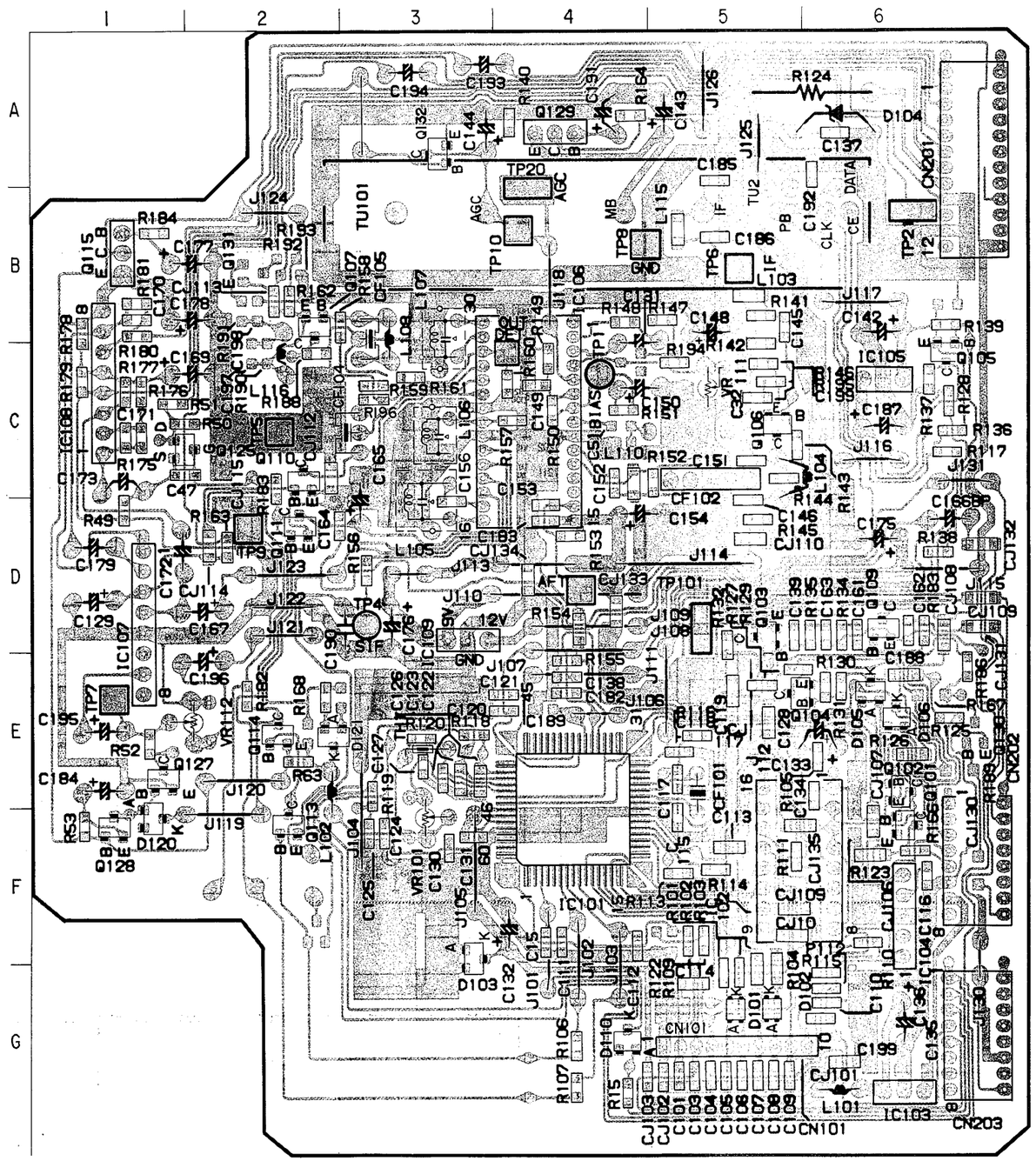
KV-8AD11/8AD14
RM-792/793

A [TUNER, VIF, SIF, CPU, SEEK]

– A Board –

A BOARÐ

① 2.5Vp-p (H)	② 2.5Vp-p (H)	③ 2.5Vp-p (H)
④ 5.0Vp-p (V)	⑤ 4.1Vp-p (H)	⑥ 5.2Vp-p (H)
⑦ 5.2Vp-p ( )		



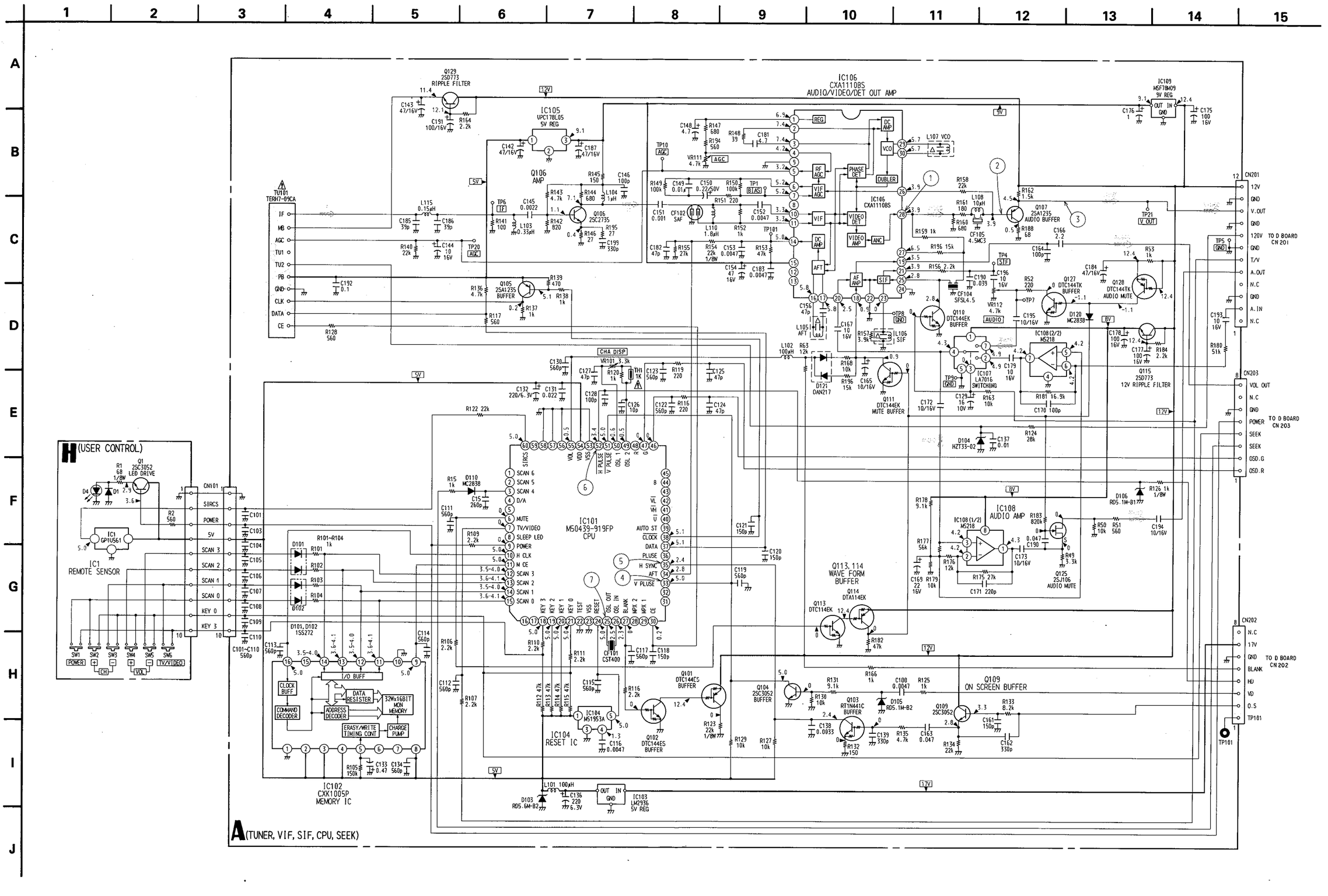
A BOARÐ

IC		VARIABLE RESISTOR	
IC101	F-4	VR101	F-3
102	F-5	111	C-5
103	G-6	112	E-2
104	F-6		
105	C-6		
106	C-4		
107	Ð-1		
108	C-1		
109	Ð-3		

TRANSISTOR		TEST POINT	
Q101	F-6	TP1	C-4
102	E-6	4	Ð-3
103	Ð-5	5	C-2
104	E-5	6	B-5
105	C-6	7	E-1
106	C-5	8	B-4
107	B-2	9	Ð-2
109	Ð-6	10	B-4
110	C-2	20	A-4
111	Ð-2	21	B-6
113	F-2	101	Ð-4
114	E-2		
115	B-1		
125	C-1		
127	E-1		
128	F-1		
129	A-4		
130	E-7		
131	B-2		
132	A-3		

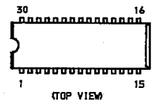
ÐIOÐE	
Ð101	G-5
102	G-5
103	F-3
104	A-6
105	E-6
106	E-6
110	G-4
120	F-1
121	E-4

KV-8AD11/8AD14 RM-792/793


H (USER CONTROL)
A (TUNER, VIF, SIF, CPU, SEEK)
IC101 M50439-919FP CPU
IC102 CXK1005P MEMORY IC
IC104 RESET IC
IC106 CXA1110BS AUDIO/VIDEO/DET OUT AMP
IC108 AUDIO AMP
IC1 REMOTE SENSOR
Q113, 114 WAVE FORM BUFFER
Q109 ON SCREEN BUFFER
Q129 2SD773 RIPPLE FILTER
Q115 2SD773 12V RIPPLE FILTER
TO D BOARD CN 201
TO D BOARD CN 203
TO D BOARD CN 202

6-4. SEMICONDUCTORS

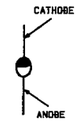
CXA1110BS
LA7626



M51953AL

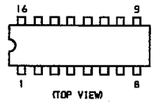
2SA1235
2SC2735J-L
2SC3052
2SC4440
25J106G
ĐTA114EK
ĐTC144EK
ĐTC144TK
RT1N441C

ĐFĐ05TE

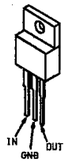


EH-1V1
EP01C
ERA18-02
ERA18-04
EU-1Z

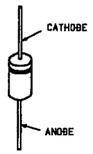
CXK1005P



M5F78M09L



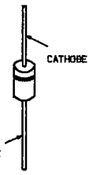
2SC2603-EF
2SC2655
2SC3468



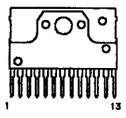
LA7016
M5218AL

RC78L05A

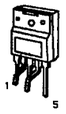
RK-46
RL-2Z
RU-2AM



LA7835

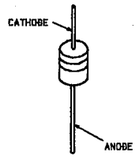


STR-Đ1206



2SĐ773

1SS199
HZS15-3L
MC2838



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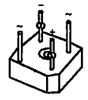

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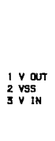

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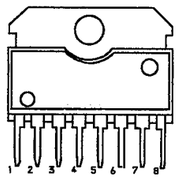

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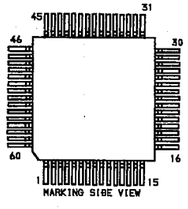

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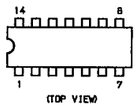
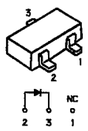


1SS272
ĐAN217
RĐ5.1M-B2
RĐ5.6M-B2
RĐ9.1M-B1
RĐ11M-B3
RĐ18M-B3



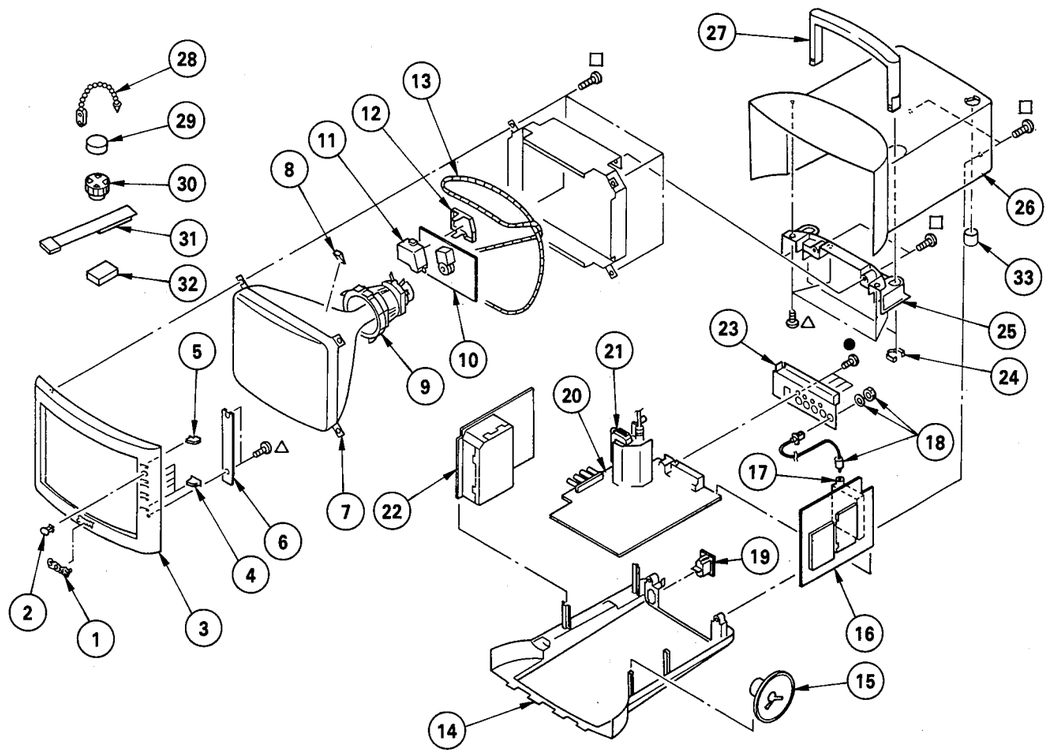
SECTION 7
EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

●: BVTP3 × 12 7-685-648-79
△: BVTP3 × 10 7-685-647-79
□: BVTP4 × 12 7-685-661-14



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	3-897-070-01	SONY BADGE NO.5	
2	9-901-575-01	LENS-B8	
3	9-901-568-01	FRONT-PANEL8 (KV-8AD11 ONLY)	
	9-901-601-01	FRONT-PANEL8 (KV-8AD14 ONLY)	
4	9-901-574-01	KNOB-B8 (KV-8AD11 ONLY)	
	9-901-	KNOB-B8 (KV-8AD14 ONLY)	
5	9-901-600-01	ASSY-KNOB-A	
6	9-901-405-01	H BOARD, COMPLETE	
7	⚠9-901-598-01	PICTURE TUBE (A20JKU10X)	
8	4-309-369-00	SPACER, DY	
9	⚠1-451-265-11	DEFLECTION YOKE (Y09NDA)	
10	9-901-399-01	C BOARD	
11	*4-376-133-11	COVER (MAIN), CV VOL	
12	*4-376-132-11	COVER (REAR LID), CV VOL	
13	⚠9-901-599-01	DGC	
14	9-901-570-01	BOTTOM8 (KV-8AD11 ONLY)	
	9-901-603-01	BOTTOM8 (KV-8AD14 ONLY)	
15	9-901-597-01	SPEAKER 8Ω 2W	
16	9-901-390-01	A BOARD, COMPLETE	
17	⚠9-901-389-01	TUNER TERH7-0C9A	
18	9-901-596-01	COAXIAL CABLE	
19	⚠9-901-595-01	AC-INLET CCT2102-0601R	
20	9-901-611-01	D BOARD, COMPLETE	
21	⚠9-901-523-01	F. B. T MSH1FPS152	
22	9-901-567-01	F BOARD, COMPLETE	
23	9-901-576-01	REAR-PANEL (KV-8AD11 ONLY)	
	9-901-604-01	REAR-PANEL (KV-8AD14 ONLY)	
24	9-901-573-01	HANDLE-STOPPER	
25	9-901-571-01	HANDLE-HOLDER (KV-8AD11 ONLY)	
	9-901-606-01	HANDLE-HOLDER (KV-8AD14 ONLY)	
26	9-901-569-01	COVER8 (KV-8AD11 ONLY)	
	9-901-605-01	COVER8 (KV-8AD14 ONLY)	
27	9-901-572-01	HANDLE8 (KV-8AD11 ONLY)	
	9-901-605-01	HANDLE8 (KV-8AD14 ONLY)	
28	4-308-870-00	CLIP, LEAD WIRE	
29	1-452-032-00	MAGNET, DISK ; 10MMφ	
30	1-452-094-00	MAGNET, RATATABLE DISK ; 15MMφ	
31	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
32	1-452-126-11	MAGNET	
33	9-901-577-01	CAP-ANT	

SECTION 8
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

When indicatng parts by reference number, please include the board name.

CAPACITORS
- MF: μF, PF: μμF

COILS
- MMH: mH, UH: μH

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	9-901-390-01	A BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C15	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C47	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	
C101	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C103	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C104	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C105	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C106	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C107	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C108	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C109	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C110	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C111	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C112	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C113	1-163-199-00	CERAMIC CHIP 560PF	5%	50V	
C114	1-163-199-00	CERAMIC CHIP 560PF	5%	50V	
C115	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C116	1-163-017-00	CERAMIC CHIP 4700PF	10%	50V	
C117	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C118	1-163-185-00	CERAMIC CHIP 150PF	5%	50V	
C119	1-163-199-00	CERAMIC CHIP 560PF	5%	50V	
C120	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	
C121	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	
C122	1-163-199-00	CERAMIC CHIP 560PF	5%	50V	
C123	1-163-199-00	CERAMIC CHIP 560PF	5%	50V	
C124	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C125	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C126	1-163-093-00	CERAMIC CHIP 10PF	5%	50V	
C127	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C128	1-163-181-00	CERAMIC CHIP 100PF	5%	50V	
C129	1-124-915-11	ELECT 10MF	20%	50V	
C130	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C131	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	
C132	1-126-923-11	ELECT 220MF	20%	10V	
C133	1-124-902-00	ELECT 0.47MF	20%	50V	
C134	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C136	1-126-923-11	ELECT 220MF	20%	10V	
C137	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C138	1-164-182-11	CERAMIC CHIP 3300PF	10%	50V	
C139	1-163-389-11	CERAMIC CHIP 330PF	5%	50V	
C142	1-126-901-11	ELECT 100MF	20%	16V	
C143	1-126-901-11	ELECT 100MF	20%	16V	
C144	1-124-915-11	ELECT 10MF	20%	50V	
C145	1-164-161-11	CERAMIC CHIP 2200PF	10%	50V	
C146	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C148	1-124-927-11	ELECT 4.7MF	20%	50V	
C149	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C150	1-124-464-11	ELECT 0.22MF	20%	50V	
C151	1-163-009-11	CERAMIC CHIP 1000PF	10%	50V	
C152	1-163-017-00	CERAMIC CHIP 4700PF	10%	50V	
C153	1-163-017-00	CERAMIC CHIP 4700PF	10%	50V	
C154	1-126-901-11	ELECT 100MF	20%	16V	
C156	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C161	1-163-381-11	CERAMIC CHIP 150PF	5%	50V	
C162	1-163-389-11	CERAMIC CHIP 330PF	5%	50V	
C163	9-901-364-01	CERAMIC CHIP 0.047MF		50V	
C164	1-163-377-11	CERAMIC CHIP 100PF	5%	50V	
C165	1-124-915-11	ELECT 10MF	20%	50V	
C166	1-124-925-11	ELECT 2.2MF	20%	50V	
C167	9-901-366-01	ELECT 10MF		16V	
C169	1-126-233-11	ELECT 22MF	20%	50V	
C170	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C171	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	
C172	9-901-366-01	ELECT 10MF		16V	
C173	9-901-366-01	ELECT 10MF		16V	
C175	9-901-365-01	ELECT 100MF		16V	
C176	1-124-902-00	ELECT 1MF	20%	50V	
C177	9-901-365-01	ELECT 100MF		16V	
C178	9-901-365-01	ELECT 100MF		16V	
C179	9-901-366-01	ELECT 10MF		16V	
C181	1-124-927-11	ELECT 4.7MF	20%	50V	
C182	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C183	1-163-018-00	CERAMIC CHIP 5600PF	10%	50V	
C184	1-126-901-11	ELECT 100MF	20%	16V	
C185	1-163-241-11	CERAMIC CHIP 39PF	5%	50V	
C186	1-163-241-11	CERAMIC CHIP 39PF	5%	50V	
C187	1-126-901-11	ELECT 100MF	20%	16V	
C188	1-163-055-00	CERAMIC CHIP 4700PF	10%	50V	
C189	1-163-009-11	CERAMIC CHIP 1000PF	10%	50V	
C190	1-136-160-00	FILM 0.039MF	5%	50V	
C191	9-901-365-01	ELECT 100MF		16V	
C192	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C193	9-901-366-01	ELECT 10MF		16V	
C194	9-901-366-01	ELECT 10MF		16V	
C195	9-901-366-01	ELECT 10MF		16V	
C196	9-901-366-01	ELECT 10MF		16V	
C199	1-163-129-00	CERAMIC CHIP 330PF	5%	50V	
		<FILTER>			
CF101	1-577-082-11	VIBRATOR, CERAMIC			
CF102	9-901-367-01	SAW-FILTER SAF45MB702			
CF104	1-577-559-11	FILTER, CERAMIC			
CF105	9-900-842-01	TRAP TPS4.5WC3			

A

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JUMPER>	
CJ101	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ102	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ103	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ104	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ105	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ106	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ107	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ108	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ109	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ110	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ111	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ112	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ113	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ114	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ115	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ116	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ117	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
CJ130	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ131	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ133	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ134	9-901-320-01	CHIP-JUMPER CJ 1/8-Z 0-J	
CJ156	9-901-321-01	CHIP-JUMPER CJ 1/10-Z 0-J	
		<CONNECTOR>	
CN101	*1-564-712-11	PIN, CONNECTOR (SMALL TYPE) 10P	
CN201	*9-901-370-01	CONNECTOR IL-SDD-12S-S2L2	
CN202	*9-901-369-01	CONNECTOR IL-SDD-8S-S2L2	
CN203	*9-901-369-01	CONNECTOR IL-SDD-8S-S2L2	
		<DIODE>	
D101	8-719-820-13	DIODE 1SS272	
D102	8-719-820-13	DIODE 1SS272	
D103	8-719-105-91	DIODE RD5.6M-B2	
D104	9-901-371-01	DIODE HZT33-02-TE	
D105	8-719-105-82	DIODE RD5.1M-B2	
D106	8-719-105-82	DIODE RD5.1M-B2	
D110	8-719-000-08	DIODE MC2838	
D120	8-719-000-08	DIODE MC2838	
D121	9-901-372-01	CHIP-DIODE DAN217-T147	
		<IC>	
IC101	9-901-373-01	IC M50439-919FP	
IC102	9-901-374-01	IC CXK1005P	
IC103	9-901-375-01	IC LM29362-5.0	
IC104	9-901-376-01	IC M51953AL	
IC105	8-759-982-21	IC RC78L05A	
IC106	8-752-035-39	IC CXA1110BS	
IC107	8-759-800-81	IC LA7016	
IC108	8-759-634-50	IC MC5218AL	
IC109	8-759-604-37	IC M5F78M09L	
		<COIL>	
L101	9-901-379-01	PEAKING-COIL EL0405RA-100UH TP	
L102	9-901-379-01	PEAKING-COIL EL0405RA-100UH TP	
L103	1-410-738-11	CHIP INDUCTOR	
L104	9-901-377-01	PEAKING-COIL EL0405RA-1UH TP	
L105	9-901-380-01	AFT-COIL 7KL 291XCS-1064NK	
L106	9-901-381-01	SIF-COIL	
L107	9-901-382-01	VCO-COIL	
L108	9-901-378-01	PEAKING-COIL EL0405RA-10UH TP	
L110	9-901-384-01	C-COIL ML322522T 1.8UH	
L115	9-901-383-01	C-COIL ML322522T 0.15UH	
		<TRANSISTOR>	
Q101	8-729-901-04	TRANSISTOR DTA114EK	
Q102	8-729-901-01	TRANSISTOR DTC144EK	
Q103	9-901-385-01	CHIP-TRANSISTOR RT1N441C-T12-A-1	
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q105	8-729-600-21	TRANSISTOR 2SA1235-E	
Q106	9-901-386-01	CHIP-TRANSISTOR 2SC2735J-L	
Q107	8-729-600-21	TRANSISTOR 2SA1235-E	
Q109	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q110	8-729-901-01	TRANSISTOR DTC144EK	
Q111	8-729-901-01	TRANSISTOR DTC144EK	
Q113	8-729-901-01	TRANSISTOR DTC144EK	
Q114	8-729-901-04	TRANSISTOR DTC114EK	
Q115	8-729-140-98	TRANSISTOR 2SD773-34	
Q125	9-901-387-01	FET 2SJ106G-TE85L	
Q127	8-729-903-30	TRANSISTOR DTC144TK	
Q128	8-729-901-04	TRANSISTOR DTA114EK	
Q129	8-729-140-98	TRANSISTOR 2SD773-34	
Q130	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q131	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q132	8-729-901-01	TRANSISTOR DTC144EK	
		<RESISTOR>	
R15	9-901-337-01	CHIP-RES CR 1.0K 1/10W	
R49	9-901-340-01	CHIP-RES CR 3.3K 1/10W	
R50	9-901-345-01	CHIP-RES CR 10K 1/10W	
R51	9-901-334-01	CHIP-RES CR 560 1/10W	
R52	9-901-332-01	CHIP-RES CR 220 1/10W	
R53	9-901-337-01	CHIP-RES CR 1.0K 1/10W	
R63	9-901-346-01	CHIP-RES CR 12K 1/10W	
R101	9-901-337-01	CHIP-RES CR 1.0K 1/10W	
R102	9-901-337-01	CHIP-RES CR 1.0K 1/10W	
R103	9-901-322-01	CHIP-RES CR 1.0K 1/8W	
R104	9-901-322-01	CHIP-RES CR 1.0K 1/8W	
R105	9-901-353-01	CHIP-RES CR 150K 1/10W	
R106	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R107	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R109	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R110	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R111	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R112	9-901-350-01	CHIP-RES CR 47K 1/10W	
R113	9-901-350-01	CHIP-RES CR 47K 1/10W	
R114	9-901-350-01	CHIP-RES CR 47K 1/10W	
R115	9-901-350-01	CHIP-RES CR 47K 1/10W	
R116	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R117	9-901-334-01	CHIP-RES CR 560 1/10W	
R118	9-901-332-01	CHIP-RES CR 220 1/10W	
R119	9-901-332-01	CHIP-RES CR 220 1/10W	
R120	9-901-337-01	CHIP-RES CR 1.0K 1/10W	
R122	9-901-339-01	CHIP-RES CR 2.2K 1/10W	
R123	9-901-325-01	CHIP-RES CR 22K 1/8W	
R124	1-216-464-11	METAL OXIDE 18K 5% 2W F	
R125	9-901-337-01	CHIP-RES CR 1.0K 1/10W	
R126	9-901-322-01	CHIP-RES CR 1.0K 1/8W	
R127	9-901-345-01	CHIP-RES CR 10K 1/10W	
R128	9-901-334-01	CHIP-RES CR 560 1/10W	
R129	9-901-345-01	CHIP-RES CR 10K 1/10W	
R130	9-901-345-01	CHIP-RES CR 10K 1/10W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R131	9-901-344-01	CHIP-RES CR	9.1K	1/10W	
R132	9-901-330-01	CHIP-RES CR	150	1/10W	
R133	9-901-343-01	CHIP-RES CR	8.2K	1/10W	
R134	9-901-348-01	CHIP-RES CR	22K	1/10W	
R135	9-901-342-01	CHIP-RES CR	4.7K	1/10W	
R136	9-901-342-01	CHIP-RES CR	4.7K	1/10W	
R137	9-901-337-01	CHIP-RES CR	1.0K	1/10W	
R138	9-901-337-01	CHIP-RES CR	1.0K	1/10W	
R139	9-901-333-01	CHIP-RES CR	470	1/10W	
R140	9-901-348-01	CHIP-RES CR	22K	1/10W	
R141	9-901-329-01	CHIP-RES CR	100	1/10W	
R142	9-901-336-01	CHIP-RES CR	820	1/10W	
R143	9-901-342-01	CHIP-RES CR	4.7K	1/10W	
R144	9-901-335-01	CHIP-RES CR	680	1/10W	
R145	9-901-330-01	CHIP-RES CR	150	1/10W	
R146	9-901-326-01	CHIP-RES CR	27	1/10W	
R147	9-901-335-01	CHIP-RES CR	680	1/10W	
R148	9-901-327-01	CHIP-RES CR	39	1/10W	
R149	9-901-352-01	CHIP-RES CR	100K	1/10W	
R150	9-901-352-01	CHIP-RES CR	100K	1/10W	
R151	9-901-332-01	CHIP-RES CR	220	1/10W	
R152	9-901-337-01	CHIP-RES CR	1.0K	1/10W	
R153	9-901-350-01	CHIP-RES CR	47K	1/10W	
R154	9-901-324-01	CHIP-RES CR	22K	1/8W	
R155	9-901-349-01	CHIP-RES CR	27K	1/10W	
R156	9-901-339-01	CHIP-RES CR	2.2K	1/10W	
R157	9-901-341-01	CHIP-RES CR	3.9K	1/10W	
R158	9-901-348-01	CHIP-RES CR	22K	1/10W	
R159	9-901-337-01	CHIP-RES CR	1.0K	1/10W	
R160	9-901-335-01	CHIP-RES CR	680	1/10W	
R161	9-901-331-01	CHIP-RES CR	180	1/10W	
R162	9-901-338-01	CHIP-RES CR	1.5K	1/10W	
R163	9-901-345-01	CHIP-RES CR	10K	1/10W	
R164	9-901-339-01	CHIP-RES CR	2.2K	1/10W	
R166	9-901-337-01	CHIP-RES CR	1.0K	1/10W	
R168	9-901-345-01	CHIP-RES CR	10K	1/10W	
R175	9-900-860-01	CHIP-RES	27K	1/10W	
R176	9-900-858-01	CHIP-RES	12K	1/10W	
R177	9-901-351-01	CHIP-RES CR	56K	1/10W	
R178	9-901-355-01	CHIP-RES	9.1K	1/10W	
R179	9-900-857-01	CHIP-RES	10K	1/10W	
R180	9-900-861-01	CHIP-RES	51K	1/10W	
R181	9-900-859-01	CHIP-RES	16.9K	1/10W	
R182	9-901-350-01	CHIP-RES CR	47K	1/10W	
R183	9-901-354-01	CHIP-RES CR	820K	1/10W	
R184	9-901-339-01	CHIP-RES CR	2.2K	1/10W	
R186	9-901-334-01	CHIP-RES CR	560	1/10W	
R188	9-901-328-01	CHIP-RES CR	68	1/10W	
R189	9-901-323-01	CHIP-RES CR	10K	1/8W	
R194	9-901-334-01	CHIP-RES CR	560	1/10W	
R195	9-901-326-01	CHIP-RES CR	27	1/10W	
R196	9-901-347-01	CHIP-RES CR	15K	1/10W	

<THERMISTOR>

TH1	⚠9-901-388-01	THERMISTOR ERT-D2FGL-102S	

<TUNER>

TU101	⚠9-901-389-01	TUNER TERH7-0C9A	

<VARIABLE RESISTOR>

VR101	9-901-361-01	SEMIFIXED-RES RH0638CN3R	3.3K
VR111	9-901-363-01	SEMIFIXED-RES RH064JCS3R	4.7K
VR112	9-901-362-01	SEMIFIXED-RES RH0638CS3R	4.7K

****

	9-901-399-01	C BOARD
		*******
	*4-376-132-11	COVER (REAR LID), CV VOL
	*4-376-133-11	COVER (MAIN), CV VOL

<CAPACITOR>

C701	9-901-393-01	CERAMIC	680PF		2KV
C702	1-102-050-00	CERAMIC	10000MF		500V
C703	1-162-114-00	CERAMIC	0.0047MF	10%	2KV
C705	9-901-391-01	CERAMIC	470PF		50V
C706	9-901-391-01	CERAMIC	470PF		50V
C707	9-901-391-01	CERAMIC	470PF		50V
C708	9-901-392-01	CERAMIC	270PF		50V
C709	9-901-392-01	CERAMIC	270PF		50V

<CONNECTOR>

CN701	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P
CN702	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE)	2P
G701	9-901-394-01	PLUG 003P-2100	

<COIL>

L704	1-408-420-00	INDUCTOR (EL TYPE)

<SOCKET>

PL701	9-901-395-01	PICTURE TUBE SOCKET CTV3309-0102R

<TRANSISTOR>

Q701	8-729-803-81	TRANSISTOR 2SC3468-D
Q702	8-729-803-81	TRANSISTOR 2SC3468-D
Q703	8-729-803-81	TRANSISTOR 2SC3468-D
Q704	8-729-803-81	TRANSISTOR 2SC3468-D
Q705	8-729-803-81	TRANSISTOR 2SC3468-D

<RESISTOR>

R473	1-249-405-11	CARBON	100	5%	1/4W	
R701	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R702	1-202-822-00	SOLID	2.2K	5%	1/2W	
R704	1-249-412-11	CARBON	390	5%	1/4W	
R705	1-249-420-11	CARBON	1.8K	5%	1/4W	
R706	1-249-412-11	CARBON	390	5%	1/4W	
R707	1-202-822-00	SOLID	2.2K	5%	1/2W	
R708	1-249-420-11	CARBON	1.8K	5%	1/4W	
R709	1-249-418-11	CARBON	1.2K	5%	1/4W	
R710	1-249-418-11	CARBON	1.2K	5%	1/4W	
R712	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R713	1-202-822-00	SOLID	2.2K	5%	1/2W	
R714	1-249-414-11	CARBON	560	5%	1/4W	
R715	1-249-420-11	CARBON	1.8K	5%	1/4W	
R717	1-202-842-11	SOLID	220K	5%	1/2W	
R718	1-202-719-00	SOLID	1M	5%	1/2W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R719	1-202-838-00	SOLID 100K 5% 1/2W	
R720	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R721	1-249-405-11	CARBON 100 5% 1/4W	
R722	1-249-405-11	CARBON 100 5% 1/4W	
		<VARIABLE RESISTOR>	
VR701	9-901-397-01	SEX1F1XED-RES 4.7K	
VR702	9-901-396-01	SEX1F1XED-RES 470	
VR703	9-901-397-01	SEX1F1XED-RES 4.7K	
VR704	9-901-396-01	SEX1F1XED-RES 470	
VR705	9-901-397-01	SEX1F1XED-RES 4.7K	
VR707	9-901-398-01	SEX1F1XED-RES 55M	
**********			
	9-901-611-01	D BOARD, COMPLETE **********	
	9-901-503-01	FUSE CAP	
	9-901-532-01	TAPTITE-P-BR B 3X8	
	9-901-533-01	HEAT SINK SHEET TC-30CG (19X24X0.3mm)	
	9-901-534-01	SPRING BAND-2	
		<CAPACITOR>	
C201	1-163-101-00	CERAMIC CHIP 22PF 5% 50V	
C202	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C203	1-163-101-00	CERAMIC CHIP 22PF 5% 50V	
C204	9-901-473-01	ELECT 47MF 16V	
C206	9-901-472-01	ELECT 22MF 16V	
C207	9-901-471-01	ELECT 10MF 16V	
C208	9-901-474-01	ELECT 100MF 16V	
C209	9-901-466-01	CERAMIC CHIP 0.1MF 50V	
C210	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C211	1-163-102-00	CERAMIC CHIP 24PF 5% 50V	
C212	1-124-925-11	ELECT 2.2MF 20% 50V	
C213	1-124-925-11	ELECT 2.2MF 20% 50V	
C214	1-137-371-91	FILM 0.015MF 5% 50V	
C215	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C216	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C217	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C218	1-163-107-00	CERAMIC CHIP 39PF 5% 50V	
C219	1-163-092-21	CERAMIC CHIP 9PF 0.50PF 50V	
C220	9-901-475-01	ELECT 1MF 50V	
C221	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C222	9-901-475-01	ELECT 1MF 50V	
C223	1-124-925-11	ELECT 2.2MF 20% 50V	
C224	1-163-017-00	CERAMIC CHIP 4700PF 10% 50V	
C225	1-163-010-11	CERAMIC CHIP 1200PF 10% 50V	
C226	9-901-464-01	CERAMIC CHIP 0.033MF 50V	
C227	9-901-474-01	ELECT 100MF 16V	
C228	9-901-475-01	ELECT 1MF 50V	
C229	9-901-464-01	CERAMIC CHIP 0.03MF 50V	
C230	9-901-467-01	CERAMIC CHIP 0.1MF 50V	
C231	1-163-009-11	CERAMIC CHIP 1000PF 10% 50V	
C232	9-901-464-01	CERAMIC CHIP 0.033MF 50V	
C233	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C234	1-163-010-11	CERAMIC CHIP 1200PF 10% 50V	
C235	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C236	9-901-474-01	ELECT 100MF 16V	
C237	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C241	9-901-474-01	ELECT 100MF 16V	
C243	1-163-006-11	CERAMIC CHIP 560PF 10% 50V	
C245	1-136-159-00	FILM 0.033MF 5% 50V	
C246	1-136-161-00	FILM 0.047MF 5% 50V	
C247	9-901-474-01	ELECT 100MF 16V	
C248	9-901-474-01	ELECT 100MF 16V	
C249	9-901-466-01	CERAMIC CHIP 0.1MF 50V	
C250	9-901-471-01	ELECT 10MF 16V	
C251	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C252	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C253	9-901-464-01	CERAMIC CHIP 0.033MF 50V	
C255	9-901-477-01	ELECT 47MF 16V	
C257	1-126-933-11	ELECT 100MF 20% 16V	
C261	9-901-465-01	CERAMIC CHIP 0.047MF 50V	
C262	9-901-470-01	CERAMIC 0.022MF 50V	
C263	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C306	1-164-161-11	CERAMIC CHIP 2200PF 10% 50V	
C307	9-901-483-01	ELECT 2.2MF 50V	
C308	9-901-477-01	ELECT 47MF 16V	
C309	9-901-480-01	ELECT 470MF 16V	
C310	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C311	9-901-480-01	ELECT 470MF 16V	
C312	9-901-479-01	ELECT 100MF 16V	
C568	9-901-469-01	CERAMIC 2200PF 50V	
C651	9-901-485-01	ELECT 1800MF 35V	
C652	9-901-485-01	ELECT 1800MF 35V	
C653	1-124-791-11	ELECT 1MF 20% 50V	
C654	9-901-476-01	ELECT 22MF 16V	
C655	1-137-366-91	FILM 0.0022MF 5% 50V	
C656	9-901-469-01	CERAMIC 2200PF 50V	
C657	9-901-476-01	ELECT 22MF 16V	
C659	1-124-791-11	ELECT 1MF 20% 50V	
C660	1-124-791-11	ELECT 1MF 20% 50V	
C661	1-136-230-00	FILM 0.0022MF 5% 100V	
C662	9-901-486-01	ELECT 220MF 50V	
C663	9-901-478-01	ELECT 100MF 50V	
C664	9-901-487-01	ELECT 680MF 16V	
C665	1-128-183-11	ELECT 470MF 20% 6.3V	
C666	1-163-181-00	CERAMIC CHIP 100PF 5% 50V	
C667	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C668	9-901-478-01	ELECT 100MF 50V	
C669	1-163-017-00	CERAMIC CHIP 4700PF 10% 50V	
C670	9-900-962-01	CERAMIC 470PF 500V	
C801	9-901-477-01	ELECT 47MF 16V	
C802	1-136-177-00	FILM 1MF 5% 50V	
C803	1-126-970-11	ELECT 330MF 20% 50V	
C804	9-900-962-01	CERAMIC 470PF 500V	
C805	9-901-481-01	ELECT 100MF 35V	
C806	1-136-163-00	FILM 0.068MF 5% 50V	
C807	9-901-475-01	ELECT 1MF 50V	
C808	1-126-942-11	ELECT 1000MF 20% 25V	
C809	1-137-368-91	FILM 0.0047MF 5% 50V	
C810	9-901-482-01	ELECT 1MF 50V	
C812	9-901-474-01	ELECT 100MF 16V	
C813	1-126-970-11	ELECT 330MF 20% 50V	
C814	⚠1-130-062-00	FILM 0.0056MF 10% 630V	
C815	⚠1-129-715-00	FILM 0.012MF 10% 630V	
C818	1-136-161-00	FILM 0.047MF 5% 50V	
C819	⚠9-901-484-01	ELECT 10MF 160V	
C820	9-900-959-01	FILM 1.2MF 100V	
C821	⚠1-136-351-51	HI-VOLTAGE FILM 1500PF 10% 30KV	
C822	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C823	1-130-857-00	FILM 0.047MF 5% 100V	
C824	9-900-966-01	CERAMIC 470PF 1KV	
C825	1-124-910-11	ELECT 47MF 20% 35V	
C826	9-901-474-01	ELECT 100MF 16V	
C832	1-163-009-11	CERAMIC CHIP 1000PF 10% 50V	
C833	9-901-464-01	CERAMIC CHIP 0.033MF 50V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C834	9-900-961-01	CERAMIC 1500PF 500V	
C837	1-137-368-91	FILM 0.0047MF 5% 50V	
		<FILTER>	
CF201	9-900-933-01	CERA-LOCK CSB503F5	
		<CONNECTOR>	
B801	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
B802	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN201	*9-901-493-01	CONNECTOR IL-SDD-12P-S2T2	
CN202	*9-901-492-01	CONNECTOR IL-SDD-8P-S2T2	
CN203	*9-901-492-01	CONNECTOR IL-SDD-8P-S2T2	
CN301	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN601	*1-564-508-11	PLUG, CONNECTOR 5P	
CN802	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
CN805	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN806	*9-901-494-01	CONNECTOR RTB-1.5-4P	
P652	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
		<DIODE>	
D201	8-719-000-08	DIODE MC2838	
D203	8-719-107-16	DIODE RD18M-B3	
D206	8-719-105-82	DIODE RD5.1M-B2	
D207	8-719-106-63	DIODE RD11M-B3	
D651	8-719-911-19	DIODE 1SS119	
D652	9-901-496-01	ZENER-DIODE HZS15-3L-TB	
D653	⚠9-901-499-01	DIODE RL2Z	
D654	⚠9-901-499-01	DIODE RL2Z	
D655	9-900-931-01	ZENER-DIODE ERA18-04	
D802	9-900-930-01	ZENER-DIODE ERA18-02	
D803	9-901-500-01	DIODE DFD05TE-BT	
D805	⚠8-719-000-08	DIODE MC2838	
D806	8-719-300-33	DIODE RU-3AM	
D807	⚠9-900-931-01	ZENER-DIODE ERA18-04	
D808	8-719-000-08	DIODE MC2838	
D809	8-719-000-08	DIODE MC2838	
D810	8-719-106-43	DIODE RD9.1M-B1	
		<DELAYLINE>	
DL201	9-901-501-01	DELAYLINE 2541-205	
		<FUSE>	
F651	⚠9-901-502-01	FUSE 237004 125V 4A	
		<IC>	
IC201	⚠9-901-504-01	IC LA7626	
IC202	9-901-505-01	IC LA7016	
IC302	8-759-101-77	IC UPC1241H	
IC651	8-759-604-37	IC M5F78M09L	
IC652	9-901-506-01	IC UPC1394G-T2	
IC801	⚠9-901-507-01	IC LA7835	
		<JUMPER>	
J670	9-901-531-01	CHIP JUMPER 1/8W	
J671	9-901-531-01	CHIP JUMPER 1/8W	
J672	9-901-531-01	CHIP JUMPER 1/8W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>	
L201	1-414-031-31	INDUCTOR 39UH	
L651	9-901-508-01	CHOKE-COIL TSL1110 3.3UH-K	
L652	1-459-811-11	COIL, CHOKE 10UH	
L653	1-459-811-11	COIL, CHOKE 10UH	
L654	9-901-509-01	NOISE-FILTER Z8503S-01 (TA)	
L655	9-901-509-01	NOISE-FILTER Z8503S-01 (TA)	
L656	1-408-420-00	INDUCTOR (EL TYPE) 82UH	
L802	9-901-511-01	PEAKING-COIL EL0606RA 3.3UH-K	
L803	⚠9-900-928-01	COIL FLIIZ 10UH	
L804	1-410-971-11	INDUCTOR 10UH	
L805	⚠9-901-513-01	HLC LH11JL41LFZ (WLH-364)	
L806	⚠9-901-510-01	NOISE-FILTER F8A04H600VB-00 TP	
VL801	9-901-525-01	H. SIZE-COIL 0296-575	
		<JACK>	
PJ801	9-901-514-01	PIN-JACK 01P061-40 (YELLOW)	
PJ802	9-901-515-01	PIN-JACK 01P061-40 (BLACK)	
PJ803	9-901-514-01	PIN-JACK 01P061-40 (YELLOW)	
PJ804	9-901-515-01	PIN-JACK 01P061-40 (BLACK)	
PJ805	9-901-516-01	DC-JACK 01J021-00	
PJ807	9-901-517-01	EARPHONE-JACK HSJ5064-91-442	
		<TRANSISTOR>	
B01	8-729-230-49	TRANSISTOR 2SC2712-YG	
B03	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q201	8-729-600-21	TRANSISTOR 2SA1235-E	
Q202	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q204	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q205	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q206	8-729-600-21	TRANSISTOR 2SA1235-E	
Q209	8-729-600-21	TRANSISTOR 2SA1235-E	
Q210	⚠8-729-140-98	TRANSISTOR 2SD773-34	
Q211	8-729-901-01	TRANSISTOR DTC144EK	
Q301	8-729-140-98	TRANSISTOR 2SD773-34	
Q651	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q652	⚠9-901-519-01	FET 2SK1429	
Q801	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q802	⚠9-901-518-01	TRANSISTOR 2SC4440	
Q803	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q804	8-729-600-21	TRANSISTOR 2SA1235-E	
		<RESISTOR>	
R201	9-901-445-01	CHIP-RES CR 22K 1/10W	
R202	9-901-448-01	CHIP-RES CR 39K 1/10W	
R203	9-901-419-01	CHIP-RES CR 100 1/10W	
R204	9-901-442-01	CHIP-RES CR 12K 1/10W	
R205	9-901-445-01	CHIP-RES CR 22K 1/10W	
R206	9-901-442-01	CHIP-RES CR 12K 1/10W	
R207	9-901-442-01	CHIP-RES CR 12K 1/10W	
R208	9-901-454-01	CHIP-RES CR 150K 1/10W	
R209	9-901-419-01	CHIP-RES CR 100 1/10W	
R210	9-901-447-01	CHIP-RES CR 33K 1/10W	
R211	9-901-440-01	CHIP-RES CR 9.1K 1/10W	
R212	9-901-441-01	CHIP-RES CR 10K 1/10W	
R214	9-901-435-01	CHIP-RES CR 3.3K 1/10W	
R215	9-901-442-01	CHIP-RES CR 12K 1/10W	
R216	9-901-441-01	CHIP-RES CR 10K 1/10W	
R217	9-901-439-01	CHIP-RES CR 8.2K 1/10W	
R218	9-901-423-01	CHIP-RES CR 330 1/10W	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R219	9-901-419-01	CHIP-RES CR	100	1/10W	
R220	9-901-457-01	CHIP-RES CR	560K	1/10W	
R221	9-901-429-01	CHIP-RES CR	1.2K	1/10W	
R222	9-901-423-01	CHIP-RES CR	330	1/10W	
R223	9-901-423-01	CHIP-RES CR	330	1/10W	
R224	9-901-423-01	CHIP-RES CR	330	1/10W	
R229	9-901-428-01	CHIP-RES CR	1K	1/10W	
R230	9-901-426-01	CHIP-RES CR	560	1/10W	
R231	9-901-455-01	CHIP-RES CR	220K	1/10W	
R232	9-901-433-01	CHIP-RES CR	2.2K	1/10W	
R233	9-901-448-01	CHIP-RES CR	39K	1/10W	
R234	9-901-436-01	CHIP-RES CR	4.7K	1/10W	
R235	9-901-458-01	CHIP-RES CR	1M	1/10W	
R236	9-901-441-01	CHIP-RES CR	10K	1/10W	
R237	9-901-421-01	CHIP-RES CR	180	1/10W	
R238	9-901-431-01	CHIP-RES CR	1.5K	1/10W	
R240	9-901-433-01	CHIP-RES CR	2.2K	1/10W	
R243	9-901-434-01	CHIP-RES CR	3K	1/10W	
R244	9-901-439-01	CHIP-RES CR	8.2K	1/10W	
R245	9-901-418-01	CHIP-RES CR	75	1/10W	
R246	9-901-431-01	CHIP-RES CR	1.5K	1/10W	
R247	9-901-431-01	CHIP-RES CR	1.5K	1/10W	
R248	9-901-435-01	CHIP-RES CR	3.3K	1/10W	
R249	9-901-419-01	CHIP-RES CR	100	1/10W	
R250	9-901-419-01	CHIP-RES CR	100	1/10W	
R251	9-901-417-01	CHIP-RES CR	68	1/10W	
R252	9-901-424-01	CHIP-RES CR	390	1/10W	
R253	9-901-416-01	CHIP-RES CR	62	1/10W	
R254	9-901-451-01	CHIP-RES CR	56K	1/10W	
R255	9-901-428-01	CHIP-RES CR	1K	1/10W	
R256	9-901-450-01	CHIP-RES CR	47K	1/10W	
R257	9-901-450-01	CHIP-RES CR	47K	1/10W	
R258	9-901-415-01	CHIP-RES CR	10	1/10W	
R259	9-901-432-01	CHIP-RES CR	1.8K	1/10W	
R260	9-901-428-01	CHIP-RES CR	1K	1/10W	
R262	9-901-433-01	CHIP-RES CR	2.2K	1/10W	
R263	9-901-433-01	CHIP-RES CR	2.2K	1/10W	
R266	9-901-450-01	CHIP-RES CR	47K	1/10W	
R269	9-901-417-01	CHIP-RES CR	68	1/10W	
R270	9-901-435-01	CHIP-RES CR	3.3K	1/10W	
R271	9-901-417-01	CHIP-RES CR	68	1/10W	
R273	9-901-450-01	CHIP-RES CR	47K	1/10W	
R278	9-901-423-01	CHIP-RES CR	330	1/10W	
R280	9-901-445-01	CHIP-RES CR	22K	1/10W	
R281	9-901-419-01	CHIP-RES CR	100	1/10W	
R282	9-901-426-01	CHIP-RES CR	560	1/10W	
R283	9-901-456-01	CHIP-RES CR	470K	1/10W	
R284	9-901-416-01	CHIP-RES CR	62	1/10W	
R287	9-901-422-01	CHIP-RES CR	220	1/10W	
R288	9-901-441-01	CHIP-RES CR	10K	1/10W	
R289	9-901-415-01	CHIP-RES CR	10	1/10W	
R291	9-901-456-01	CHIP-RES CR	470K	1/10W	
R292	9-901-424-01	CHIP-RES CR	390	1/10W	
R293	9-901-459-01	CHIP-RES CR	4.7M	1/10W	
R294	9-901-427-01	CHIP-RES CR	680	1/10W	
R301	9-901-441-01	CHIP-RES CR	10K	1/10W	
R303	9-901-450-01	CHIP-RES CR	47K	1/10W	
R304	9-901-450-01	CHIP-RES CR	47K	1/10W	
R306	9-901-441-01	CHIP-RES CR	10K	1/10W	
R307	9-901-450-01	CHIP-RES CR	47K	1/10W	
R308	9-901-450-01	CHIP-RES CR	47K	1/10W	
R310	9-901-414-01	CHIP-RES CR	2	1/10W	
R311	9-901-420-01	CHIP-RES CR	150	1/10W	
R312	9-901-420-01	CHIP-RES CR	150	1/10W	
R316	9-901-430-01	CHIP-RES CR	1.3K	1/10W	
R317	9-901-426-01	CHIP-RES CR	560	1/10W	
R318	9-901-413-01	CHIP-RES CR	1	1/10W	
R651	1-247-704-11	CARBON	220 5%	1/4W F	
R652	9-901-441-01	CHIP-RES CR	10K	1/10W	
R653	1-247-708-11	CARBON	470 5%	1/4W F	
R655	9-901-453-01	CHIP-RES CR	100K	1/10W	
R656	9-901-433-01	CHIP-RES CR	2.2K	1/10W	
R657	9-901-449-01	CHIP-RES CR	43K	1/10W	
R658	9-901-456-01	CHIP-RES CR	470K	1/10W	
R659	9-901-453-01	CHIP-RES CR	100K	1/10W	
R660	9-901-436-01	CHIP-RES CR	4.7K	1/10W	
R661	9-901-436-01	CHIP-RES CR	4.7K	1/10W	
⧓R662	⚠	METAL		1/4W	
R663	9-901-444-01	CHIP-RES CR	18K	1/10W	
R664	9-901-438-01	CHIP-RES CR	6.8K	1/10W	
R665	1-215-453-00	METAL	22K 1%	1/4W	
R666	9-901-443-01	CHIP-RES CR	15K	1/10W	
R667	9-901-461-01	R-METAL	0.033	2W	
R670	1-247-704-11	CARBON	220 5%	1/4W F	
R671	1-249-417-11	CARBON	1K 5%	1/4W	
R672	9-901-453-01	CHIP-RES CR	100K	1/10W	
R673	9-901-408-01	CHIP-RES CR	1K	1/8W	
R674	9-901-428-01	CHIP-RES CR	1K	1/10W	
R801	9-901-425-01	CHIP-RES CR	470	1/10W	
R803	1-216-354-51	METAL OXIDE	2.7 5%	1W F	
R804	9-901-446-01	CHIP-RES CR	27K	1/10W	
R805	9-901-450-01	CHIP-RES CR	47K	1/10W	
R806	9-901-423-01	CHIP-RES CR	330	1/10W	
R807	9-901-444-01	CHIP-RES CR	18K	1/10W	
R808	9-901-437-01	CHIP-RES CR	5.6K	1/10W	
R809	9-901-450-01	CHIP-RES CR	47K	1/10W	
R810	9-901-433-01	CHIP-RES CR	2.2K	1/10W	
R811	1-216-455-11	METAL OXIDE	560 5%	2W F	
R812	1-249-409-11	CARBON	220 5%	1/4W	
R813	9-901-423-01	CHIP-RES CR	330	1/10W	
R814	9-901-439-01	CHIP-RES CR	8.2K	1/10W	
R815	9-901-426-01	CHIP-RES CR	560	1/10W	
R816	1-216-857-11	METAL GLAZE	1M 5%	1/6W	
R818	9-901-446-01	CHIP-RES CR	27K	1/10W	
R820	⚠9-900-940-01	R-FUSE	27	1/2W	
R821	⚠9-900-939-01	R-FUSE	100	1/2W	
R822	9-901-428-01	CHIP-RES CR	1K	1/10W	
R823	⚠9-901-407-01	CHIP-RES CR	10	1/4W	
R824	9-901-410-01	CHIP-RES CR	8.2K	1/8W	
R825	9-901-442-01	CHIP-RES CR	12K	1/10W	
R826	9-901-452-01	CHIP-RES CR	82K	1/10W	
R828	9-901-445-01	CHIP-RES CR	22K	1/10W	
R829	9-901-445-01	CHIP-RES CR	22K	1/10W	
R831	9-901-412-01	CHIP-RES CR	15K	1/8W	
R832	9-901-412-01	CHIP-RES CR	15K	1/8W	
R833	9-901-443-01	CHIP-RES CR	15K	1/10W	
R834	9-901-411-01	CHIP-RES CR	10K	1/8W	
R838	⚠9-901-406-01	CHIP-RES CR	9.1	1/4W	
R839	9-901-409-01	CHIP-RES CR	5.6K	1/8W	
⧓R840	⚠	CHIP-RES CR		1/10W	
R867	9-901-445-01	CHIP-RES CR	22K	1/10W	
R868	9-901-445-01	CHIP-RES CR	22K	1/10W	
R869	1-249-411-11	CARBON	330 5%	1/4W	
R870	1-249-409-11	CARBON	220 5%	1/4W	
R871	9-901-426-01	CHIP-RES CR	560	1/10W	
R872	9-901-437-01	CHIP-RES CR	5.6K	1/10W	
R873	9-901-423-01	CHIP-RES CR	330	1/10W	

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

D F

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R874	9-901-460-01	R-CARBON	1.5	1/4W	
R875	9-901-460-01	R-CARBON	1.5	1/4W	
R876	9-901-437-01	CHIP-RES CR	5.6K	1/10W	
R877	9-901-413-01	CHIP-RES CR	1	1/10W	
R878	9-901-413-01	CHIP-RES CR	1	1/10W	
⧓R879 ⚠		CHIP-RES CR		1/10W	
		<SWITCH>			
SW101	9-901-520-01	SLIDE-SW SSSSF1			
SW802	9-901-521-01	LEVER-SW EVQ-ROBL 12			
		<TRANSFORMER>			
T201	9-901-522-01	HDT SRW16ES-513V003			
T202	⚠9-901-523-01	F. B. T MSH1FPS152			
T651	⚠9-901-524-01	TRANSFORMER SRW2929ED-533V004			
		<VARIABLE RESISTOR>			
VR201	9-901-526-01	VR-BLCK RX09Z4410 (20KBX4)			
VR205	9-901-527-01	SEMIFIXD-RES RH0638CS4R 47K			
VR206	9-901-527-01	SEMIFIXD-RES RH0638CS4R 47K			
⧓VR651 ⚠		SEMIFIXD-RES			
VR801	9-901-527-01	SEMIFIXD-RES RH0638CS4R 47K			
VR802	9-901-528-01	SEMIFIXD-RES RH0638C 220			
VR803	9-900-921-01	SEMIFIXD-RES RH064JC 2.2K			
		<CRYSTAL>			
X201	1-567-505-11	OSCILLATOR, CRYSTAL			
**********					
	9-901-567-01	F BOARD, COMPLETE			
		**********			
	9-901-555-01	FUSE-CLIP PFC5000-0202			
	9-901-556-01	FUSE-CAP TP-109			
	9-901-566-01	SPRING-BAND 3			
		<CAPACITOR>			
C601	⚠9-901-545-01	C-POLYPROPYLENE LFX 0.1MF-K		250V	
C602	⚠1-162-679-11	CERAMIC	2200PF 20%	125V	
C603	⚠1-162-679-11	CERAMIC	2200PF 20%	125V	
C604	⚠9-901-543-01	ELECT	180MF	200V	
C606	9-901-538-01	CERAMIC	470PF	1KV	
C607	9-901-539-01	CERAMIC	0.022MF	50V	
C608	9-901-544-01	ELECT	33MF	35V	
C609	1-126-101-11	ELECT	100MF 20%	16V	
C610	⚠1-162-678-11	CERAMIC	1000PF 20%	125V	
C612	⚠9-901-541-01	ELECT	1000MF	25V	
C613	⚠9-901-541-01	ELECT	1000MF	25V	
C614	9-901-542-01	ELECT	330MF	25V	
C615	⚠9-901-545-01	C-POLYPROPYLENE 0.1MF		250V	
C616	9-901-540-01	CERAMIC	4700PF	500V	
C617	1-124-791-11	ELECT	1MF 20%	50V	
C618	1-164-081-11	CERAMIC	470PF 10%	50V	
		<CONNECTOR>			
CN601	*9-901-547-01	CONNECTOR RTB-1.5-3P			
CN603	*9-901-546-01	CONNECTOR RTB-1.5-2P			
CN604	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN605	*1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
		<DIODE>			
D601	⚠9-901-551-01	DIODE-BRIGE RB156			
D602	9-901-548-01	DIODE EPOIC			
D603	8-719-312-61	DIODE EU-1Z			
D604	⚠8-719-312-62	DIODE EU1ZV1			
D605	9-901-549-01	DIODE EH1Y1			
D606	8-719-312-61	DIODE EU-1Z			
D607	⚠9-901-550-01	DIODE RK46 LF-L1 (015-206)			
D608	8-719-911-19	DIODE 1SS119			
		<FUSE>			
F601	⚠9-901-552-01	FUSE 237004 125V 4A			
F602	⚠9-901-553-01	FUSE 125V 1.25A			
F603	⚠9-901-554-01	FUSE 125V 2.5A			
		<IC>			
IC601	⚠9-901-557-01	HIC STR-D1206			
		<COIL>			
L601	⚠9-901-559-01	LINE-FILTER TLF12UA 502W1RO			
L602	9-901-558-01	CHOKE-COIL TSL1110 10UH			
L603	9-901-560-01	NOISE-FILTER ZBF5030-00TA			
L604	9-901-561-01	DC-LINE-FILTER SH-302			
		<TRANSISTOR>			
Q601	8-729-265-52	TRANSISTOR 2SC2655-Y			
Q602	9-901-562-01	TRANSISTOR 2SC2603-34-A-E/F			
		<RESISTOR>			
R602	⚠9-901-537-01	R-WIRE BWR	2.2	3W	
R603	1-214-917-00	CARBON	150K 5%	1/2W	
R604	1-214-917-00	CARBON	150K 5%	1/2W	
R605	⚠1-216-448-11	METAL OXIDE	39 5%	2W	F
R606	⚠1-215-886-11	METAL OXIDE	100 5%	2W	F
R607	9-901-536-01	R-CARBON	1.0K	1/4W	
R608	9-901-536-01	R-CARBON	1.0K	1/4W	
R609	⚠9-901-535-01	R-CARBON	1.5	1/4W	
R610	⚠1-216-365-11	METAL OXIDE	0.47 5%	2W	F
R611	⚠1-215-927-11	METAL OXIDE	47K 5%	3W	F
R614	⚠1-202-661-11	SOLID	4.7M 5%	1/2W	
R616	1-249-429-11	CARBON	10K 5%	1/4W	
		<RELAY>			
RY601	9-901-563-01	RELAY AJZ32117			
		<TRANSFORMER>			
T601	⚠9-901-564-01	TRANSFORMER SRW3333ED-541V016			
		<THERMISTOR>			
PTH601	⚠9-901-565-01	THERMISTOR 903P52E080NP14A			
**********					

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H

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	9-901-405-01	H BOARD, COMPLETE	
		**********	
		<DIODE>	
D1	8-719-000-08	DIODE MC2838	
D4	9-901-403-01	DIODE SLR331MC70F070	
		<IC>	
IC1	9-900-910-01	IC GP1U561	
		<JUMPER>	
J1	9-901-402-01	CHIP-JUMPER CR 1/10W	
		<TRANSISTOR>	
Q1	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
R1	9-901-400-01	CHIP-RES CR 68	1/8W
R2	9-901-401-01	CHIP-RES CR 560	1/10W
		<SWITCH>	
SW1	1-571-532-21	SWITCH, TACTIL	
SW2	1-571-532-21	SWITCH, TACTIL	
SW3	1-571-532-21	SWITCH, TACTIL	
SW4	1-571-532-21	SWITCH, TACTIL	
SW5	1-571-532-21	SWITCH, TACTIL	
SW6	1-571-532-21	SWITCH, TACTIL	
		MISCELLANEOUS	
		**********	
	⚠1-451-265-11	DEFLECTION YOKE (Y09NDA)	
	1-452-032-00	MAGNET, DISK ; 10MMφ	
	1-452-094-00	MAGNET, RATATABLE DISK ; 15MMφ	
	1-452-126-11	MAGNET	
	⚠9-901-595-01	AC-INLET CCT2102-0601R	
	9-901-596-01	COAXIAL CABLE	
	9-901-597-01	SPEAKER 8Ω 2W	
	⚠9-901-599-01	DGC	
V901	⚠9-901-598-01	PICTURE TUBE (A20JKU10X)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-465-958-11	REMOTE COMANDER (RM-792)(GRAY) (KV-8AD11 ONLY)	
	1-465-959-11	REMOTE COMANDER (RM-793) (WHITE)(KV-8AD14 ONLY)	
	3-753-903-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-753-903-31	MANUAL, INSTRUCTION (FRENCH)	
	*9-901-581-01	PACKING-PLATE	
	*9-901-582-01	PACKING-CASE (KV-8AD11 ONLY)	
	*9-901-583-01	PACKING-BAG	
	*9-901-584-01	PACKING-BAG	
	*9-901-585-01	CUSHION	
	9-901-587-01	CAR-BATTERY-CODE	
	9-901-589-01	ROD ANTENNA (KV-8AD11 ONLY)	
	⚠9-901-590-01	AC CORD	
	*9-901-607-01	PACKING-CASE (KV-8AD14 ONLY)	
	9-901-608-01	ROD ANTENNA (KV-8AD14 ONLY)	

9-964-744-01

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